

**Detection:** *Salmonella Pathogenicity Islands*

Salmonella Pathogenicity Islands									
SPI	Identity	Query / Template length	Contig	Position in contig	Organism	Insertion Site	Category Function	Note	Accession number
C63PI	100	4000 / 4000	69M_SET_cns	3006066..3010065	Salmonella-enterica-Typhimurium-SL1344	fhlA	1		<a href="#">AF128999</a>
CS54_island	99.92	25255 / 25252	69M_SET_cns	2627012..2652263	Salmonella-enterica-Typhimurium-ATCC_14028	xseA-yfgK	29		<a href="#">AF140550</a>
Not_named	100	330 / 330	69M_SET_cns	1482746..1483075	Salmonella-enterica-Enteritidis-CMCC50041		26		<a href="#">JQ071613</a>
SPI-1	99.96	2705 / 2705	69M_SET_cns	3010641..3013345	Salmonella-enterica-Typhimurium-SL1344	fhlA/mutS	5	N.B. This record is part of a PAI which includes several records: U16278,U16303	<a href="#">AF148689</a>
SPI-1	99.77	440 / 440	69M_SET_cns	3015995..3016434	Salmonella-enterica-Gallinarum-SGB_1	Not_published	5		<a href="#">AY956822</a>
SPI-1	100	430 / 430	69M_SET_cns	3018105..3018534	Salmonella-enterica-Gallinarum-SGE_2	Not_published	5		<a href="#">AY956823</a>
SPI-1	100	470 / 470	69M_SET_cns	3026813..3027282	Salmonella-enterica-Gallinarum-SGB_4	Not_published	5		<a href="#">AY956824</a>
SPI-1	99.28	415 / 415	69M_SET_cns	3038600..3039014	Salmonella-enterica-Gallinarum-SGB_8	Not_published	5		<a href="#">AY956825</a>
SPI-1	98.84	259 / 257	69M_SET_cns	3039894..3040152	Salmonella-enterica-Typhimurium-J4STEHO		27		<a href="#">JN982040</a>
SPI-1	99.43	3155 / 3141	69M_SET_cns	3049734..3052886	Salmonella-enterica-Typhimurium-SL1344	fhlA/mutS	5	N.B. This record is part of a PAI which includes several records: U16278,AF148689	<a href="#">U16303</a>
SPI-12	97.64	9345 / 11075	69M_SET_cns	2342056..2351393	Salmonella-enterica-Choleraesuis-SC_B67	tRNA-pro	8	gij62178570:2354604-2365678 - go to <a href="http://www.paidb.re.kr/about_paidb.php">http://www.paidb.re.kr/about_paidb.php</a> for link to partial flatfile	<a href="#">NC_006905</a>
SPI-13	99.41	338 / 338	69M_SET_cns	3279563..3279900	Salmonella-enterica-Gallinarum-SGD_3	tRNA-pheV	9		<a href="#">AY956832</a>
SPI-13	100	404 / 404	69M_SET_cns	3278852..3279255	Salmonella-enterica-Gallinarum-SGG_1	tRNA-pheV	11		<a href="#">AY956833</a>

SPI-13	100	341 / 341	69M_SET_cns	3277144..3277484	Salmonella-enterica-Gallinarum-SGA_10	tRNA-pheV	10		<a href="#">AY956834</a>
SPI-14	100	501 / 501	69M_SET_cns	926728..927228	Salmonella-enterica-Gallinarum-SGA_8	Not_published	12		<a href="#">AY956835</a>
SPI-14	99.55	441 / 441	69M_SET_cns	932304..932744	Salmonella-enterica-Gallinarum-SGC_8	Not_published	13		<a href="#">AY956836</a>
SPI-2	98.9	637 / 637	69M_SET_cns	1497019..1497655	Salmonella-enterica-Gallinarum-SGB_10	tRNA-valV	14		<a href="#">AY956826</a>
SPI-2	100	642 / 642	69M_SET_cns	1489709..1490350	Salmonella-enterica-Gallinarum-SGC_2	tRNA-valV	14		<a href="#">AY956827</a>
SPI-2	100	395 / 396	69M_SET_cns	1494342..1494736	Salmonella-enterica-Gallinarum-SGC_9	tRNA-valV	14		<a href="#">AY956828</a>
SPI-2	99.76	425 / 425	69M_SET_cns	1487684..1488108	Salmonella-enterica-Gallinarum-SGH_1	tRNA-valV	14		<a href="#">AY956829</a>
SPI-2	99.82	547 / 547	69M_SET_cns	1477547..1478093	Salmonella-enterica-Gallinarum-SGD_8	tRNA-valV	14		<a href="#">AY956830</a>
SPI-2	100	384 / 384	69M_SET_cns	1480008..1480391	Salmonella-enterica-Typhimurium-St11		23		<a href="#">JN673272</a>
SPI-2	100	1252 / 1252	69M_SET_cns	1475967..1477218	Salmonella-enterica-Typhimurium-	tRNA-valV	14	N.B. This record is part of a PAI which includes several records: AJ224892,AJ224978,U51927,X99944,X99945,Y09357	<a href="#">Z95891</a>
SPI-3	100	738 / 738	69M_SET_cns	3965704..3966441	Salmonella-enterica-Typhimurium-14028s	tRNA_selC	15	N.B. This record is part of a PAI which includes several records: AF106566,Y13864	<a href="#">AJ000509</a>
SPI-3	100	1514 / 1514	69M_SET_cns	3948169..3949682	Salmonella-enterica-Typhimurium-14028s	tRNA_selC	15	N.B. This record is part of a PAI which includes several records: AF106566,AJ000509	<a href="#">Y13864</a>
SPI-4	100	24660 / 24660	69M_SET_cns	4476929..4501588	Salmonella-enterica-Typhimurium-ST4/74	Not_published	17		<a href="#">AJ576316</a>
SPI-5	100	9069 / 9069	69M_SET_cns	1175309..1184377	Salmonella-Typhimurium-LT2	tRNA-serT	18	gi 16763390:1175321-1184389 - go to <a href="http://www.paidb.re.kr/about_paidb.php">http://www.paidb.re.kr/about_paidb.php</a> for link to partial flatfile	<a href="#">NC_003197</a>
SPI-9	98.58	12647 / 15696	69M_SET_cns	2831233..2843879	Salmonella-Typhi-CT18	Not_published	22	gi 16758993:2743495-2759190 - go to <a href="http://www.paidb.re.kr/about_paidb.php">http://www.paidb.re.kr/about_paidb.php</a> for link to partial flatfile	<a href="#">NC_003198</a>

extended output

### C63PI\_AF128999

template **TTTTGCGCGTAGGCGAACAGCGCGTCGTAATGCCCTGCACCGTTGACGCCTGTGGGCAC**  
query **TTTTGCGCGTAGGCGAACAGCGCGTCGTAATGCCCTGCACCGTTGACGCCTGTGGGCAC**

template query	TGGCTTTTCATACAGCGCGATCATTTTTTTTGATCGTCAGTTTTTTCACGAGCGATACGTTTA
template query	CCAGGCATCGTGCTCTCTCCGAACATTAAGGTGTATTTATTTTACACCTTATCCCTCTTT CCAGGCATCGTGCTCTCTCCGAACATTAAGGTGTATTTATTTTACACCTTATCCCTCTTT
template query	AGCACTATCACTGCATATTGTCGCCATTTTCGCAAATAAGAATTATTTTCATTATCCATA AGCACTATCACTGCATATTGTCGCCATTTTCGCAAATAAGAATTATTTTCATTATCCATA
template query	CCTTGTGCTATATAACATAGCAAAGGCTATATTCGATGATTAATTAACCACATTGTTGCG CCTTGTGCTATATAACATAGCAAAGGCTATATTCGATGATTAATTAACCACATTGTTGCG
template query	AGGGATACTATGACGAATCTACATCGTCTGAAAACACTCCTGATTGCCGGTATTGTCGCG AGGGATACTATGACGAATCTACATCGTCTGAAAACACTCCTGATTGCCGGTATTGTCGCG
template query	ATACTCGCGCTATCGCCAGCCTATGCAAAAGAGAAATTTAAAGTTATCACCACGTTTACC ATACTCGCGCTATCGCCAGCCTATGCAAAAGAGAAATTTAAAGTTATCACCACGTTTACC
template query	GTTATTGCCGACATGGCGAAAAACGTGGCGGGCGACGCAGCGGAAGTCAGCTCGATTACC GTTATTGCCGACATGGCGAAAAACGTGGCGGGCGACGCAGCGGAAGTCAGCTCGATTACC
template query	AAACCCGGCGCTGAAATCCATGAGTATCAGCCAACGCCCGCGCATATTAACGAGCGCAG AAACCCGGCGCTGAAATCCATGAGTATCAGCCAACGCCCGCGCATATTAACGAGCGCAG
template query	GGGGCACAGCTTATCCTCGCGAATGGTCTGAACCTGGAGCGATGGTTCCGCCGCTTTTAT GGGGCACAGCTTATCCTCGCGAATGGTCTGAACCTGGAGCGATGGTTCCGCCGCTTTTAT
template query	CAGCACCTTTCGGCGTGCCGGAAGTCGTCTCTCCACCGCGCTCAAACCGATGGGCATT CAGCACCTTTCGGCGTGCCGGAAGTCGTCTCTCCACCGCGCTCAAACCGATGGGCATT
template query	ACCGAAGGCCCGTATAACGGTAAACCGAACCCGCACGCCTGGATGTCGGCAGAAAACGCG ACCGAAGGCCCGTATAACGGTAAACCGAACCCGCACGCCTGGATGTCGGCAGAAAACGCG
template query	CTGATTTATGTCGATAAATTGCGACGCCCTGGTGAAGTACGATCCGGATAATGCGCAG CTGATTTATGTCGATAAATTGCGACGCCCTGGTGAAGTACGATCCGGATAATGCGCAG
template query	ATCTATAAGCAAAATGCCGAACGCTATAAAGCGAAAATTCGCCAGATGGCCGATCCGTTG ATCTATAAGCAAAATGCCGAACGCTATAAAGCGAAAATTCGCCAGATGGCCGATCCGTTG
template query	CGTGCCGAAC TGGA AAAAATTCCCGCCGATCAGCGCTGGTTGGTCAACAGTGAAGGCGCG CGTGCCGAAC TGGA AAAAATTCCCGCCGATCAGCGCTGGTTGGTCAACAGTGAAGGCGCG
template query	TTCTCTTACCTGGCGCGGATAAACGACATGAAAGAGCTTTATCTCTGGCCAATTAAACGCC TTCTCTTACCTGGCGCGGATAAACGACATGAAAGAGCTTTATCTCTGGCCAATTAAACGCC
template query	GATCAACAGGGGACGCCAAAACAGGTGCGTAAAGTGATTGATACCATTAAAAAGCACCAT GATCAACAGGGGACGCCAAAACAGGTGCGTAAAGTGATTGATACCATTAAAAAGCACCAT
template query	ATTCCCGCCATCTTTAGCGAGAGTACGGTTTCCGATAAACCGGCCCGTCAGGTCGCGCGT ATTCCCGCATCTTTAGCGAGAGTACGGTTTCCGATAAACCGGCCCGTCAGGTCGCGCGT
template query	GAATCCGGCGCGCATTATGGCGGCGTGCTGTATGTCGATTCTCTGAGCGCCGCTGACGGC GAATCCGGCGCGCATTATGGCGGCGTGCTGTATGTCGATTCTCTGAGCGCCGCTGACGGC
template query	CCTGTGCCAACCTATCTGGATCTGCTGCGCGTCACGACCGAAACCATCGTCAACGGCATT CCTGTGCCAACCTATCTGGATCTGCTGCGCGTCACGACCGAAACCATCGTCAACGGCATT
template query	AACGACGGACTGAGGAGTCAACAATGAGTCAATCTGCGATTACCGTTGATCAAGTCACGG AACGACGGACTGAGGAGTCAACAATGAGTCAATCTGCGATTACCGTTGATCAAGTCACGG
template query	TGACGTATCGCAACGGTCATACCGCCCTACGGGACGCCACTTTTCAGGTGCCTGGCGGTT TGACGTATCGCAACGGTCATACCGCCCTACGGGACGCCACTTTTCAGGTGCCTGGCGGTT
template query	CAATCGCCGCGCTGGTAGGCGTAAATGGTTCGGTAAGTCTACGTTATTTAAAGCGTTAA CAATCGCCGCGCTGGTAGGCGTAAATGGTTCGGTAAGTCTACGTTATTTAAAGCGTTAA
template query	TGGGCTTTGTGCATCTTGCGCAGGGCGATATCACTATCTGCAACAGTCAGTCAACAAGG TGGGCTTTGTGCATCTTGCGCAGGGCGATATCACTATCTGCAACAGTCAGTCAACAAGG
template	CACTGAAAAAAACCTCATTGCTTATGTTCCGCAATCGGAAGAAGTGGACTGGTCATTTT

query	CACTGAAAAAAACCTCATTGGCTTATGTTCCGCAATCGGAAGAGTGGAATGGTCAATTT
template	CGGTGCTGGTAGAAGATGTGGTGATGATGGGACGCTACGGCCATATGGGCTGGCTACGCC
query	CGGTGCTGGTAGAAGATGTGGTGATGATGGGACGCTACGGCCATATGGGCTGGCTACGCC
template	GTCCCACTGCGCATGATCACGCCTGTGTTGACGCCGCGCTGGCGCGGGTGGATATGCAGG
query	GTCCCACTGCGCATGATCACGCCTGTGTTGACGCCGCGCTGGCGCGGGTGGATATGCAGG
template	AGTATCGTCACAGGCAGATTGGCGAGCTGTCCGGCGGGCAGAAAAACGTGTGTTCTTG
query	AGTATCGTCACAGGCAGATTGGCGAGCTGTCCGGCGGGCAGAAAAACGTGTGTTCTTG
template	CCAGGGCCATCGCTCAGGATGGACAGGTGATCCTGCTGGATGAACCTTTTACCGCGCTGG
query	CCAGGGCCATCGCTCAGGATGGACAGGTGATCCTGCTGGATGAACCTTTTACCGCGCTGG
template	ATGTAAAAACCGAAGCGCGAATCATCGATCTACTGCGGGAACGCGCGATGAAGGCCGCA
query	ATGTAAAAACCGAAGCGCGAATCATCGATCTACTGCGGGAACGCGCGATGAAGGCCGCA
template	CGATGCTGGTCTCAACGCATAATCTCGGCTCCGTACCCGAGTTTTGCGACTATACGGTAA
query	CGATGCTGGTCTCAACGCATAATCTCGGCTCCGTACCCGAGTTTTGCGACTATACGGTAA
template	TGATTAAAGGAACCGTACTGGCCAGCGGCCCTACCGAAACACGTTTACCGCCGCGAATC
query	TGATTAAAGGAACCGTACTGGCCAGCGGCCCTACCGAAACACGTTTACCGCCGCGAATC
template	TGGAACAGGCGTTTAGCGGCGTTCTACGTCAATCGCGTTAAGCGGAGGTGAAGAGCACA
query	TGGAACAGGCGTTTAGCGGCGTTCTACGTCAATCGCGTTAAGCGGAGGTGAAGAGCACA
template	TCATCACCGATGACGAGCGCCCTTTATTTCCGCGCGGTGGCCAGCGAGGAAAAATCGT
query	TCATCACCGATGACGAGCGCCCTTTATTTCCGCGCGGTGGCCAGCGAGGAAAAATCGT
template	CATGAACTGGCTTGTTGAGCCGTTTGGCTACCACTATATGCTCAACGCGATGTGGGTCTC
query	CATGAACTGGCTTGTTGAGCCGTTTGGCTACCACTATATGCTCAACGCGATGTGGGTCTC
template	CGCGATGGTGGGCGGTCTGTGCGCGTTTCTCTCCTGCTATTTGATGCTCAAAGGCTGGTC
query	CGCGATGGTGGGCGGTCTGTGCGCGTTTCTCTCCTGCTATTTGATGCTCAAAGGCTGGTC
template	GCTCATTGGCGATGCGCTATCTCACTCTATTGTGCTGGCGTCGCTGGCGCCTGGATGTT
query	GCTCATTGGCGATGCGCTATCTCACTCTATTGTGCTGGCGTCGCTGGCGCCTGGATGTT
template	AGGGCTGCCCTTCTCGCTCGGCGCGTTTCTTTCCGGCGGACTGGCGGCAGGCAGTATGCT
query	AGGGCTGCCCTTCTCGCTCGGCGCGTTTCTTTCCGGCGGACTGGCGGCAGGCAGTATGCT
template	CTTTCTTAACCAACGCTCACGCCTGAAAGAAGACGCGATTATCGGGCTTATCTTCTCCTC
query	CTTTCTTAACCAACGCTCACGCCTGAAAGAAGACGCGATTATCGGGCTTATCTTCTCCTC
template	TTTTTTTGGCGTCGGCCTTTTTATGGTGTGCGCTCAATCCGATGTCGGTGAATATCCAGAC
query	TTTTTTTGGCGTCGGCCTTTTTATGGTGTGCGCTCAATCCGATGTCGGTGAATATCCAGAC
template	GATTATTCTCGGCAACGTGCTGGCGATCGCACCAGCGGATATTGCGCAACTGGCGATTAT
query	GATTATTCTCGGCAACGTGCTGGCGATCGCACCAGCGGATATTGCGCAACTGGCGATTAT
template	CGGCGCAGTCTCGCTGACGATTCTGCTGTTAAAGTGGAAGATCTGATGGTCGCTTTTT
query	CGGCGCAGTCTCGCTGACGATTCTGCTGTTAAAGTGGAAGATCTGATGGTCGCTTTTT
template	CGATGAAACCCATGCGCGTTCTATCGGGCTTAATCCGGGTCGACTAAAGCTGTTGTTTT
query	CGATGAAACCCATGCGCGTTCTATCGGGCTTAATCCGGGTCGACTAAAGCTGTTGTTTT
template	CACTCTATTGTCCGTCTCTACCGTGGCGGCCCTGCAAACCGTTGGGGCGTTCTCGGTGAT
query	CACTCTATTGTCCGTCTCTACCGTGGCGGCCCTGCAAACCGTTGGGGCGTTCTCGGTGAT
template	CTGTCTCGTCTGACGCCGGGCGCGACGGCCTGGTTACTCACCGACCGTTTTCCACGTCT
query	CTGTCTCGTCTGACGCCGGGCGCGACGGCCTGGTTACTCACCGACCGTTTTCCACGTCT
template	GCTCATGATTGCCGTCTGATTGGCAGCCTGACCAGTTTTCTGGGCGCATGGCTTAGCTA
query	GCTCATGATTGCCGTCTGATTGGCAGCCTGACCAGTTTTCTGGGCGCATGGCTTAGCTA
template	CTGGCTGGATGGCGCCACGGGTGGAATTATTGTCGTATGCAAACCTTACTGTTTCATCAC
query	CTGGCTGGATGGCGCCACGGGTGGAATTATTGTCGTATGCAAACCTTACTGTTTCATCAC
template	AGCCTTTATTTTCGCCCCGAAACACGGTCTGTTAGCCAACCGTCGACGCGCCCGCTGCA
query	AGCCTTTATTTTCGCCCCGAAACACGGTCTGTTAGCCAACCGTCGACGCGCCCGCTGCA

template	GAAGGAGCCGACATGTTCTTAACAACGTTACTGGAACCTTTTCAGTTTGATTTTATGGTG
query	GAAGGAGCCGACATGTTCTTAACAACGTTACTGGAACCTTTTCAGTTTGATTTTATGGTG
template	AACGCCCTTATGTTTCGGTCATTGTGGCGATTCCCTGCGCCTTACTGTCCGTGTTTTTA
query	AACGCCCTTATGTTTCGGTCATTGTGGCGATTCCCTGCGCCTTACTGTCCGTGTTTTTA
template	GTGTTAAAAGGCTGGGCGTTAATGGGCGATGCAATGAGTCATGCGGTATTCGCCGGGTC
query	GTGTTAAAAGGCTGGGCGTTAATGGGCGATGCAATGAGTCATGCGGTATTCGCCGGGTC
template	GTGCTGGCATATATTGTGGGGATCCCCTGCGGATTGGCGCTTTCATTGCCGGATTATT
query	GTGCTGGCATATATTGTGGGGATCCCCTGCGGATTGGCGCTTTCATTGCCGGATTATT
template	TGCGCTATCGCCACCGGCTATCTGGACGATAACAGCCGCATCAAACGTGATACGGTGATG
query	TGCGCTATCGCCACCGGCTATCTGGACGATAACAGCCGCATCAAACGTGATACGGTGATG
template	GGCATCGTCTTTTCCGGGATGTTTGGCGCAGGTCTGGTGCTCTATGTTTCTATTCAATCG
query	GGCATCGTCTTTTCCGGGATGTTTGGCGCAGGTCTGGTGCTCTATGTTTCTATTCAATCG
template	GAAGTGCATCTGGATCACATCCTGTTTGGGGATATGCTGGGCGTATCGCTGGGGGATATC
query	GAAGTGCATCTGGATCACATCCTGTTTGGGGATATGCTGGGCGTATCGCTGGGGGATATC
template	GTACAAACGTCAAGTATTGCACTGGGTATTGCGTTAATCATAGGGCTGAAATGAAAAGAT
query	GTACAAACGTCAAGTATTGCACTGGGTATTGCGTTAATCATAGGGCTGAAATGAAAAGAT
template	CTCCTGCTACACGCTTTTGACCCGCACCAAGGCGAAAGCCAGCGGGCTGAATACCACACTA
query	CTCCTGCTACACGCTTTTGACCCGCACCAAGGCGAAAGCCAGCGGGCTGAATACCACACTA
template	CTGCATTATGGCCTGCTATGTATGATTGCGCTGACTATCGTCGCCACGCTGAAATCGGTG
query	CTGCATTATGGCCTGCTATGTATGATTGCGCTGACTATCGTCGCCACGCTGAAATCGGTG
template	GGCATTATTCTGTCAATCTCACTGCTTATCGCCCCGGCGCAATTGCCATTTTGCTGACG
query	GGCATTATTCTGTCAATCTCACTGCTTATCGCCCCGGCGCAATTGCCATTTTGCTGACG
template	CGACGCTTTGCGCGCGCGCTGGGATTAGCGGTGAGTCTGTCAATTATTACCGCTTTTGCG
query	CGACGCTTTGCGCGCGCGCTGGGATTAGCGGTGAGTCTGTCAATTATTACCGCTTTTGCG
template	GGCGTTTATCTGTCTTTTTATCTTGATAGCGCGCCAGCGCCACCATCGTGGTATTATT
query	GGCGTTTATCTGTCTTTTTATCTTGATAGCGCGCCAGCGCCACCATCGTGGTATTATT
template	GCCATCGTGTTTATTGCGGCATTTATTTACGCAACATGGCGCGACAGGCGTAATGAAATC
query	GCCATCGTGTTTATTGCGGCATTTATTTACGCAACATGGCGCGACAGGCGTAATGAAATC
template	GTACCAGAGGCGCAAGGTTAACACTTTTTTGCTGCTATTAGGAAACATACGGTCATAA
query	GTACCAGAGGCGCAAGGTTAACACTTTTTTGCTGCTATTAGGAAACATACGGTCATAA
template	TATAGAGTAGTCTTATGGCGCTGGAAGGATTTCTCTGGCAGGCAACCTTATAATTTTAT
query	TATAGAGTAGTCTTATGGCGCTGGAAGGATTTCTCTGGCAGGCAACCTTATAATTTTAT
template	TACGGTTTAAAGTAAAGACTTATATTCAGCTATCCTTTTTTATGAGCGGATATAGAGAGT
query	TACGGTTTAAAGTAAAGACTTATATTCAGCTATCCTTTTTTATGAGCGGATATAGAGAGT
template	TTTTTATCGTTTAGCATAACGGCATTGTTATCGAATCGCTCATAAAGCGTTTCATTCTTT
query	TTTTTATCGTTTAGCATAACGGCATTGTTATCGAATCGCTCATAAAGCGTTTCATTCTTT
template	TTGTTTACTATACTGCTTCCCGCCGCCGGATTGGCTCCA
query	TTGTTTACTATACTGCTTCCCGCCGCCGGATTGGCTCCA

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template	TGGCCCGTCAGCAAACCGCGCTGGAACGTCTACGCCAACGGATGGGATTTGCGCTTGAGG
query	TGGCCCGTCAGCAAACCGCGCTGGAACGTCTACGCCAACGGATGGGATTTGCGCTTGAGG
template	CCAGGATTAAGCAGGCCAATCAACGCCAACAGTGCGTAAGTCAACGCCTGAGCCAGCAA
query	CCAGGATTAAGCAGGCCAATCAACGCCAACAGTGCGTAAGTCAACGCCTGAGCCAGCAA
template	ATCCGCAGCCGCGCATTACCGCGCGCAGTCGCGCATCCAACAGCTTGAATATCGTCTGA
query	ATCCGCAGCCGCGCATTACCGCGCGCAGTCGCGCATCCAACAGCTTGAATATCGTCTGA

template	CGGAGAATATCCGCTCACGGTTAAGCGAACAGCGCGAGCGTTTTGGCAACGCGGTCACGC
query	CGGAGAATATCCGCTCACGGTTAAGCGAACAGCGCGAGCGTTTTGGCAACGCGGTCACGC
template	ATCTGGAAGCGGTACGCCCCTAGCCACGCTGGCGCGCGGTATACGGTTTCGACGACAA
query	ATCTGGAAGCGGTACGCCCCTAGCCACGCTGGCGCGCGGTATACGGTTTCGACGACAA
template	CGGACGGCAAGGTGCTGAAAAAGATCAAACAGGTCAAAGCAGGCGATATCATGACCACGA
query	CGGACGGCAAGGTGCTGAAAAAGATCAAACAGGTCAAAGCAGGCGATATCATGACCACGA
template	GACTGGAGGACGGCTGGCTTGAAAGTGAAGTCAAATCCGTACGCCGGGACGTAAATCCA
query	GACTGGAGGACGGCTGGCTTGAAAGTGAAGTCAAATCCGTACGCCGGGACGTAAATCCA
template	ACACTCCCCACCCCTTTGCAGCGCATGTTGGGTTTCGACTTCGCCTCAGCCAACCTACG
query	ACACTCCCCACCCCTTTGCAGCGCATGTTGGGTTTCGACTTCGCCTCAGCCAACCTACG
template	CGCCACGTCGGATAAGGTGTAGCCATAATCTGACGATCAACCGTTTGTATTGCCTCA
query	CGCCACGTCGGATAAGGTGTAGCCATAATCTGACGATCAACCGTTTGTATTGCCTCA
template	AAACCGGGCAGGGAACACCCGCCCGGTTTTGTCTAACTTACCAGTTATAGCGCAGATTGA
query	AAACCGGGCAGGGAACACCCGCCCGGTTTTGTCTAACTTACCAGTTATAGCGCAGATTGA
template	GGCTACCGTTTACGATCGCCAAAGTCATTGCTGCCAGTCTGCCGGCAACCTGAGCGCGAA
query	GGCTACCGTTTACGATCGCCAAAGTCATTGCTGCCAGTCTGCCGGCAACCTGAGCGCGAA
template	CGCTCCACTGCTTATCGATATCTGCCTGCAGACCCACTTTCAGCTCCGCACGGTTAGCCG
query	CGCTCCACTGCTTATCGATATCTGCCTGCAGACCCACTTTCAGCTCCGCACGGTTAGCCG
template	GAAGATCCTGTTTACCGTAGCATCATCAAACGATACCGACACATCATCGCTGGTGTGCA
query	GAAGATCCTGTTTACCGTAGCATCATCAAACGATACCGACACATCATCGCTGGTGTGCA
template	GCCAGTTAGCTTCAGCAAACGGCTGGATAAACGTACGGCTGCCTTTGTACAGCTTGCCGT
query	GCCAGTTAGCTTCAGCAAACGGCTGGATAAACGTACGGCTGCCTTTGTACAGCTTGCCGT
template	CAACACGCAGACCCAGACGCGTTGTCCAACGTGCGCCATCCTGACCATCGATCCGGGTGC
query	CAACACGCAGACCCAGACGCGTTGTCCAACGTGCGCCATCCTGACCATCGATCCGGGTGC
template	CGTAGTTATCCTTACGCTATCCGCTGAGTAATTCTGCCAGACAACCTGCGCCTGCGGCG
query	CGTAGTTATCCTTACGCTATCCGCTGAGTAATTCTGCCAGACAACCTGCGCCTGCGGCG
template	TCAGACTGACAGTATTACCGTTGCTAAGCGCAATATCGTAGCGATAACCAAGTTTCCAGCG
query	TCAGACTGACAGTATTACCGTTGCTAAGCGCAATATCGTAGCGATAACCAAGTTTCCAGCG
template	AGACGGCGTTAGCGGTTGAATCATAAGATTAGATCCCGCATCACCGCTCTCTACGCTGT
query	AGACGGCGTTAGCGGTTGAATCATAAGATTAGATCCCGCATCACCGCTCTCTACGCTGT
template	TGTTGTAGAAACCATATTGGTACCAGCTGTCGACATACGCGCCGCTATGCGTTTGGGCAT
query	TGTTGTAGAAACCATATTGGTACCAGCTGTCGACATACGCGCCGCTATGCGTTTGGGCAT
template	CGGCAAACCAAGGTGGCATAGACGCCAAGGTTGTAGCCGCTCTACGTTGCCGCTACTGGTGA
query	CGGCAAACCAAGGTGGCATAGACGCCAAGGTTGTAGCCGCTCTACGTTGCCGCTACTGGTGA
template	ACTGGCTACCGTCTGCGCCACGGTTACCGGTGCTGTGCGTATCGGCGTTGATGTAGCTCG
query	ACTGGCTACCGTCTGCGCCACGGTTACCGGTGCTGTGCGTATCGGCGTTGATGTAGCTCG
template	CCATGACGCCAACGGTAACGCTCTGCTGGCCGTTACCCAGGCCAGAATGTCGCCGCCTA
query	CCATGACGCCAACGGTAACGCTCTGCTGGCCGTTACCCAGGCCAGAATGTCGCCGCCTA
template	ACTGGAAGTGGGAGTAGTTGCTGTCCATATCGATATTGCCGCTGACAGCCTCGGATTCCG
query	ACTGGAAGTGGGAGTAGTTGCTGTCCATATCGATATTGCCGCTGACAGCCTCGGATTCCG
template	CTTTACCCGCTTTGAAGCGCGCCATACGCTGCCATCGGCATTACGATACTGGCTGCCCT
query	CTTTACCCGCTTTGAAGCGCGCCATACGCTGCCATCGGCATTACGATACTGGCTGCCCT
template	CGCGGTCATAGAGGGTCTGCATTTGCAGGTTGCGCGCCATCCACTGGTTGCCATGTACG
query	CGCGGTCATAGAGGGTCTGCATTTGCAGGTTGCGCGCCATCCACTGGTTGCCATGTACG
template	CGCCGATATCCGCACGGTACTGCGGTGCGACATCGCCGCCGTGGTCCGGAGGCGTGACAT
query	CGCCGATATCCGCACGGTACTGCGGTGCGACATCGCCGCCGTGGTCCGGAGGCGTGACAT

template	CGCCGCCGTCGCCGCCGTCGTCGGAGGCGTGACATTACCGCCATCGCCGCCGTCGTCGG
query	
template	GAGGCGTGACATTACCGCCATCGTCACCGCCATCCGAAGGCGTGTATCACCGCCGCTGT
query	GAGGCGTGACATTACCGCCATCGTCACCGCCATCCGAAGGCGTGTATCACCGCCGCTGT
template	CGTCATCATCAGACTGTGCTTTTGACGCCAGATACCAGTCGTTGTCACTTTTCATTCCAGT
query	CGTCATCATCAGACTGTGCTTTTGACGCCAGATACCAGTCGTTGTCACTTTTCATTCCAGT
template	ACAGACGGTAGGTATACAGACCGGCGTTAACCTCATTTTTTAGCTCAAACGCATCGCTGG
query	ACAGACGGTAGGTATACAGACCGGCGTTAACCTCATTTTTTAGCTCAAACGCATCGCTGG
template	TCGATACGCCGCCAACATCCACCACTTCGATACCGTTAGTGGTCTGTGCTCCATCGCCGA
query	TCGATACGCCGCCAACATCCACCACTTCGATACCGTTAGTGGTCTGTGCTCCATCGCCGA
template	TGCCGTTGATGTACAGATCGGTGGTGCCGGAAGCATCGCCGGTAATGACCAACTTATCGG
query	TGCCGTTGATGTACAGATCGGTGGTGCCGGAAGCATCGCCGGTAATGACCAACTTATCGG
template	TTGCCGAATCATCGTCGCCCAGGACGGTATTCAAGTAAGCGAGCCGCCGTTGCCGGTGT
query	TTGCCGAATCATCGTCGCCCAGGACGGTATTCAAGTAAGCGAGCCGCCGTTGCCGGTGT
template	AATTGCCATCGACATAAAGCGTATTGCCAGGCGTGCTGGAGCTGCTACCACTGGTCATTG
query	AATTGCCATCGACATAAAGCGTATTGCCAGGCGTGCTGGAGCTGCTACCACTGGTCATTG
template	TCCCCATGTTGATCAGATCGCCATTGAAGGTGAAGATAGCGCCTGTTTCTCGTGTTGC
query	TCCCCATGTTGATCAGATCGCCATTGAAGGTGAAGATAGCGCCTGTTTCTCGTGTTGC
template	CGAAGACCAGCGTCCCTTCGTTGGTCACCTTACCGTTAACGGTCGTACCATTGCTGCCGC
query	CGAAGACCAGCGTCCCTTCGTTGGTCACCTTACCGTTAACGGTCGTACCATTGCTGCCGC
template	CGAAGGTCGCCCCGGAGGCGACGTTACCGCCTGCTGGCTGCCATCTCGCCAATCGAGC
query	CGAAGGTCGCCCCGGAGGCGACGTTACCGCCTGCTGGCTGCCATCTCGCCAATCGAGC
template	CGTCTCCGGACAGCCATAGCGTGCCTTCTGTACGTTGGTATCGCCGCTATAAGTGTTCG
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template	GCTTGTCAGTGAGGTTTCATCGTCAGGCTGGTAAAGTCGCCGCTGATATCGCTGGTCATAT
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query	CCATCAGTTTAAAGGACTGGAAC TCCGCGTCGGAGGCGCGCCTTG CAGGCTGGCGTCGC
template	TGACGACCAAATCGCCGCCAAGCGTGGCGCTGCTGCCGGTAATCAGCGTTGCACTGAGT
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template	CAC TATTCAGCTCAACGTT CAGCGTACTGCCATCTTGCTGAATTAACGCGCTGTCGCCGA
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template	GATCCAACGAGGTGCCGAGCGCCAGTTGGGTCGTCGCGCCGCTATGAGTGGTGATGCCGC
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template	CCACCGCGCTGACTTCAACGCTGCGTCCAGCACCAGCGTGGCATTATTGTCTACCAGAC
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template	CGCTGTAGTCGTTGTGCGCCAGAGAGGATCAGCGTGCCTGCGCCTTCTTTGGTCAGCGATT

query	CGCTGTAGTCGTTGTCCGCAGAGAGGATCAGCGTGCCTTCTTTGGTCAGCGATT
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query	AGTAATCGTTGCCGCCGCTTAACGTCAGCTCGCCGGTACCGGTTTTACCCAGCGAACC GC
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template	TATCGCCGCTGCCAGCGAATCCGCATGGTCAGCCGTACCGCCGTAATGGTGG
query	TATCGCCGCTGCCAGCGAATCCGCATGGTCAGCCGTACCGCCGTAATGGTGG



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query	GCGAGCCGCTGCCGAAAGGATGTTTTCCAGCTCGCCTTCGCCACCTTAAGCACGCCGC
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template query	CTGTGACCGTGGTGGGCTGCCAGCCGACGGTGGCGACACCCGAGACATATAGCGCCGCGC CTGTGACCGTGGTGGGCTGCCAGCCGACGGTGGCGACACCCGAGACATATAGCGCCGCGC
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template query	CAGCCACGGCGCAAGCCAGCGCCGCGCGCTTGCTTTTATTATTTGTCCATATTCGACT CAGCCACGGCGCAAGCCAGCGCCGCGCGCTTGCTTTTATTATTTGTCCATATTCGACT
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query	CTGGGCATCAGTTTGCGCATACAGATATTTGCGCGAGGTATCCAGCAGGTATGTCGCCAG
template	GCCGGACGGCATCACATTACGCAGCGTAATATCGTCTGTGATGCTTGAGGACGATGTGGC
query	GCCGGACGGCATCACATTACGCAGCGTAATATCGTCTGTGATGCTTGAGGACGATGTGGC
template	GCTGTTGGCGGATTGTACGAAGATCCGCGGCTGATTTTCACCATCACGTTTTTCATCGG
query	GCTGTTGGCGGATTGTACGAAGATCCGCGGCTGATTTTCACCATCACGTTTTTCATCGG
template	CTGACCTGCGGCGTCTTTCACGTCGATGGTGGCGGCCATCTGCTCGCCCTTCTTCGCCTT
query	CTGACCTGCGGCGTCTTTCACGTCGATGGTGGCGGCCATCTGCTCGCCCTTCTTCGCCTT
template	TGCGCTTCCGGTGGTTTTCATCTGGCCTGCCAGCGTCAGCGTCAGGCTGGCGGCGGCGCT
query	TGCGCTTCCGGTGGTTTTCATCTGGCCTGCCAGCGTCAGCGTCAGGCTGGCGGCGGCGCT

template query	GCGCGGCGAGGCAAGACAGGCTGCGATGTAGTACATCGAGGTGCTGGTCGTCGTTTTGACGCGCGGCGAGGCAAGACAGGCTGCGATGTAGTACATCGAGGTGCTGGTCGTCGTTTTGAC
template query	ATCATTGCCGTCGTTAAACAGGTTGACCGCCGCATAGAGCGACTTCGTGCCGTCGTACGAATCATTGCCGTCGTTAAACAGGTTGACCGCCGCATAGAGCGACTTCGTGCCGTCGTACGA
template query	TATCACGTAATCCCCGCCACCAGTAGCGGCTGACGTTGTTGTTGCCTGAACTGGTCATATCACGTAATCCCCGCCACCAGTAGCGGCTGACGTTGTTGTTGCCTGAACTGGTCAT
template query	CGGCCAGCCGTTACGGCTGCGCATGGCGTTATCCGGGTATGTCCCGTACAGTGTCTGGAGCGGCCAGCCGTTACGGCTGCGCATGGCGTTATCCGGGTATGTCCCGTACAGTGTCTGGAG
template query	GTTGGCTACGGTCGGTAGCGTGTGCGGCCACAGCCGCCACCGGTGCCGTTCCAGGCTTTGTTGGCTACGGTCGGTAGCGTGTGCGGCCACAGCCGCCACCGGTGCCGTTCCAGGCTTT
template query	ATCGACGGTTATCATGCCCCAGGTTTCGCCCTTGTCTGTAGTAGCCGTTGGCGATGGTCAGATCGACGGTTATCATGCCCCAGGTTTCGCCCTTGTCTGTAGTAGCCGTTGGCGATGGTCAG
template query	CGTTTTGCCGGGCGTAGCGCTAAACTCGCTGGCCAGCAGCGGACGCCTGTACGCCACGCCCGTTTTGCCGGGCGTAGCGCTAAACTCGCTGGCCAGCAGCGGACGCCTGTACGCCACGCC
template query	GCTGCTGTCGGTCAGCGTTTCCGCCATATGGCCCCAGTAGTTGGCCTTCGGCGTGTCCGGCTGCTGTCGGTCAGCGTTTCCGCCATATGGCCCCAGTAGTTGGCCTTCGGCGTGTCCGG
template query	ACTGGTGACCACGGTAAAGATGACCGGCAGCGGCGCGCTCGTTACGCCGTTGTGTTCTATACTGGTGACCACGGTAAAGATGACCGGCAGCGGCGCGCTCGTTACGCCGTTGTGTTCTAT
template query	CGCCGCCGTCAGCGGCGTTTTAAAGCCCGCGCCGCTGTCCTGGCTGATATTACGCGTCAGCGCCGCGTCAGCGGCGTTTTAAAGCCCGCGCGCTGTCCTGGCTGATATTACGCGTCAG
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template	TTTCGTCCCCTGGGTGTCCGGGCGGGTGACGTTGATGATTTTGCTGCCGTTTTTACC

query	TTTCGTCGCCGTGGGTGTCGCGGCGGGTGACGTTTGCTGCCGTTTTACCGGT
template	CATGCCGCCGATTTTGGTGGCGGTGTCGTTGAGCGAATCGCCGTCGATCACCACGCCGA
query	CATGCCGCCGATTTTGGTGGCGGTGTCGTTGAGCGAATCGCCGTCGATCACCACGCCGA
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query	CGCGTTGCCGGAATGGGCTGATACAGCGTATCCAGCAACAGTTGCCCCGGCACCTGGCC
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query	GGTACCGCACTGGTTCGTCGCCGCCGTTACCGAGTTAAACGTCGCCCAGTATTCGTTATT

template	CTCAAATTCGGAACCGGTATCCTGCGCGGCTTCGTCCGCCAGCAGCGGGCGTTTGTAGAT
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template	CGGGTCGCCCACGGCGGGCGCGATATCCACGGCAAACTTTTGATCAAGCACTTCGACCGC
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query	AATCACGCCTGGTTCAATGTATTGCTTATCCACCGCACCGCGCAATAAGCGTAATCACG
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template	GGTGGACGACCACTAGTTAAGATAGGTCGGCCAGCCCTGAATGCTGTGAATCTTGCCGCC
query	GGTGGACGACCACTAGTTAAGATAGGTCGGCCAGCCCTGAATGCTGTGAATCTTGCCGCC
template	GCTGTTGGCGTTATACAGCGCCTCAAGCTGGTCGATGCGCGGCAGGCGGTTGCGCCGCGA
query	GCTGTTGGCGTTATACAGCGCCTCAAGCTGGTCGATGCGCGGCAGGCGGTTGCGCCGCGA
template	GCCGCCCGCATCCGGGTTGCCACCGCGTCGCTATGGGCCACGCGGCCAGGTCTCATT
query	GCCGCCCGCATCCGGGTTGCCACCGCGTCGCTATGGGCCACGCGGCCAGGTCTCATT
template	GCTCTCGTCCTGGGTACGACGCGGGTTGCTCACTTCACCCGCCAGTTTGGGCCGCTCAAA
query	GCTCTCGTCCTGGGTACGACGCGGGTTGCTCACTTCACCCGCCAGTTTGGGCCGCTCAAA
template	GGTCCAGTCGCCCACGGTAATCGTGTGGCCATATGGCCCCACATTTTGGCCGCTGGCGT
query	GGTCCAGTCGCCCACGGTAATCGTGTGGCCATATGGCCCCACATTTTGGCCGCTGGCGT
template	ATCCGGGCTGGTGGCGACGGTAAACTTCACGCTGCGGGAAACCGCGTGCTGATTAATGA
query	ATCCGGGCTGGTGGCGACGGTAAACTTCACGCTGCGGGAAACCGCGTGCTGATTAATGA
template	ATCGACGGGCGCAATATTTAACGGCGTCAGCAGCCCCACGCCCTTTTCTGGGTGAGGAT
query	ATCGACGGGCGCAATATTTAACGGCGTCAGCAGCCCCACGCCCTTTTCTGGGTGAGGAT
template	AATGGTCGCATCGCCGTTAGCGTCGGTGATCCCGTGATAAACCTGCCCGGCAACGTAGCC
query	AATGGTCGCATCGCCGTTAGCGTCGGTGATCCCGTGATAAACCTGCCCGGCAACGTAGCC
template	CACGTCGTCAAACGTCATCTCGCCGTTGCTGGTATCGGTAAAGCCGGTCGTACGCCGTC
query	CACGTCGTCAAACGTCATCTCGCCGTTGCTGGTATCGGTAAAGCCGGTCGTACGCCGTC
template	ACGCCGCTGCCGTTGCCATGGTGATGGTGAAGTCGGTATTGCCGATCGCCATGCCGTT
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template	AAGGGCGTTGCGCGAATGGATGTTATCTTAACCTGTTACCCACTTTGGCGTCGGCGTT
query	AAGGGCGTTGCGCGAATGGATGTTATCTTAACCTGTTACCCACTTTGGCGTCGGCGTT
template	TTTGATCACCGGGTCGTCGTTGAAGTAGACGTCCAGCACCGCCACCATTTTCATTGGCCGA
query	TTTGATCACCGGGTCGTCGTTGAAGTAGACGTCCAGCACCGCCACCATTTTCATTGGCCGA
template	GCAGGTCAGGTAGTTGGGCGTATCGGTAAATTTGCCGCTATCGCCGTTTTCGAGGTTGAC
query	GCAGGTCAGGTAGTTGGGCGTATCGGTAAATTTGCCGCTATCGCCGTTTTCGAGGTTGAC

template query	GTGTACCGTCCCGAGGCGTCGCTGTCGGCGGCGATGAAATAATCTTCAGTCGGCCAGCCGTGTACCGTCCCGAGGCGTCGCTGTCGGCGGCGATGAAATAATCTTCAGTCGGCCAGCC
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template	CCATTGCGATCCGTGGAGTCGCCAAAGGAATCGGTGATCAGCAGATCCATCACACGCCG
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template	GCGGTGCGCTGCTCTTCGGTATCGGCATTAACCCAGGCAGGAAGCACCAGATTCCAGCTG
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**Not\_named\_JQ071613**

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template	GAAACGTTAGCAGCATTAAAGAAAAAGGATCCCGCTCTTTCTTTAATTTATCAGGATATT
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template	GCGCCTTCCCATGATGAAAGCAAGTATCTGCCTGCGCCAGTGGCTGGCTTTGTACAGAGT
query	GCGCCTTCCCATGATGAAAGCAAGTATCTGCCTGCGCCAGTGGCTGGCTTTGTACAGAGT
template	CGCCATGGTAATTACTTATTACTGACGAATAAAGAGCGTTTACGTGTAGGGGCATTGTTA
query	CGCCATGGTAATTACTTATTACTGACGAATAAAGAGCGTTTACGTGTAGGGGCATTGTTA
template	CCCAATGGGGGAGAAATTGTCCATCTGAGTGCCGATGTGGTAACGATTAACATTATGAT
query	CCCAATGGGGGAGAAATTGTCCATCTGAGTGCCGATGTGGTAACGATTAACATTATGAT
template	ACTTTGATTAACATCCATTAGATTTTAAG
query	ACTTTGATTAACATCCATTAGATTTTAAG

***SPI-1\_AF148689***

template	ACCCCCATTGCTGGCGATTTGTGATAAGGTATGGTGTATATATCAGCAAATAATGCAGAA
query	ACCCCCATTGCTGGCGATTTGTGATAAGGTATGGTGTATATATCAGCAAATAATGCAGAA
template	AATGCACCATGCCAGTGTGCTATCTTATTGATGTATATGGATTATTAAGATGTCTGCCA
query	AATGCACCATGCCAGTGTGCTATCTTATTGATGTATATGGATTATTAAGATGTCTGCCA
template	GCCGTTTTATTCTGAAATGATTATATTAATATTGAAGCTTTCATTACAAAATTGTGCAT
query	GCCGTTTTATTCTGAAATGATTATATTAATATTGAAGCTTTCATTACAAAATTGTGCAT
template	AAAGTTTGTAAGGGTATCTTTTTGTGACGAAATGAACGCGCGTTGGAATGTAATTATTGG
query	AAAGTTTGTAAGGGTATCTTTTTGTGACGAAATGAACGCGCGTTGGAATGTAATTATTGG
template	CTATAATAATAAAAAAATCGGATTTAAATCATCTCTGTGAGTTTTAATTATTGTTTATA
query	CTATAATAATAAAAAAATCGGATTTAAATCATCTCTGTGAGTTTTAATTATTGTTTATA
template	AGAATATAACGATTTTGAGTTCCTTAGCACACAGGATAAAATATGGTATTGCCTTCAA
query	AGAATATAACGATTTTGAGTTCCTTAGCACACAGGATAAAATATGGTATTGCCTTCAA
template	TGAATAAATCAGTTGAGGCCATTAGCAATAATCACCTTCAACAGCCGAACAAATTTCCAT
query	TGAATAAATCAGTTGAGGCCATTAGCAATAATCACCTTCAACAGCCGAACAAATTTCCAT
template	TAATAAATGGATTAGCTGACGTAAGAGACTATTATGTGCAAACTGCTTATTGTTTAAAC
query	TAATAAATGGATTAGCTGACGTAAGAGACTATTATGTGCAAACTGCTTATTGTTTAAAC
template	TTAATAAAGGCAGTTTGCGAATTGAAAACGAATTTGGGGAGTTCATCGAACGATCTGCGC
query	TTAATAAAGGCAGTTTGCGAATTGAAAACGAATTTGGGGAGTTCATCGAACGATCTGCGC
template	CGTGTTTATTTTTATTGGAAAAAGATCAAACAATCACGCTTAGTATGAGCGAAATAGAAG
query	CGTGTTTATTTTTATTGGAAAAAGATCAAACAATCACGCTTAGTATGAGCGAAATAGAAG
template	GGCATATTGATTTTTCTTCACTGGAAGTTTCCTATGACTTAATGCAAAAATTCACAAAG
query	GGCATATTGATTTTTCTTCACTGGAAGTTTCCTATGACTTAATGCAAAAATTCACAAAG
template	TTTTTTACAGTACAAGAACTATAATGATCGAGAGCTATCATTAAAAACGAAACCAAAGT
query	TTTTTTACAGTACAAGAACTATAATGATCGAGAGCTATCATTAAAAACGAAACCAAAGT
template	ATTTTTTTCATGCGGACTTGTGGCCAGGGATGAGTGATACTTTTGACTCTATTTTGCATG
query	ATTTTTTTCATGCGGACTTGTGGCCAGGGATGAGTGATACTTTTGACTCTATTTTGCATG
template	GTGTGGCATGTCCACGGGTTTGTAGTAATGTGAGTATTGATGATCATGATTATTCATATT
query	GTGTGGCATGTCCACGGGTTTGTAGTAATGTGAGTATTGATGATCATGATTATTCATATT
template	TCTCATTGATGTATCTTATATCGGCATTTGTACGTAAGCCCGGTGGGTTTGATTTCCTTG
query	TCTCATTGATGTATCTTATATCGGCATTTGTACGTAAGCCCGGTGGGTTTGATTTCCTTG
template	AGCGAGCAATAAAAAATTACGACAAAAGAGAAAAGTTTATAACATTATTATCAGCGATCTCA
query	AGCGAGCAATAAAAAATTACGACAAAAGAGAAAAGTTTATAACATTATTATCAGCGATCTCA
template	CCCACAAATGGTCACAGGCTGAGGTGGCAGGAAAGCTGTTTATGAGCGTATCAAGTCTGA



query	CCCGCAAATGGTCACAGGCTGAGGTGGCAGGAAAGCTGTTTATGAGCGTATCAAGTCTGA
template	AGCGAAAACCTGGCCGCTGAAGAGGTTGAGTTTTAGTAAAATATACCTGGATGCTCGTATGA
query	AGCGAAAACCTGGCCGCTGAAGAGGTTGAGTTTTAGTAAAATATACCTGGATGCTCGTATGA
template	ATCAGGCTATAAAATTATTACGTATGGGGGCTGGAAATATTTTACAAGTCGCGACGATGT
query	ATCAGGCTATAAAATTATTACGTATGGGGGCTGGAAATATTTTACAAGTCGCGACGATGT
template	GTGGCTATGATACGCCTTCTTATTTTATCGCTATTTTTAAACGGCATTTTAAGATTACAC
query	GTGGCTATGATACGCCTTCTTATTTTATCGCTATTTTTAAACGGCATTTTAAGATTACAC
template	CGCTTAGCTTTATGCGTACAATGAACCATTTGATTTGTGAAATATTTTAAACGTTACTAT
query	CGCTTAGCTTTATGCGTACAATGAACCATTTGATTTGTGAAATATTTTAAACGTTACTAT
template	CTGTTTGC GTTACAGATACCAAATATTTTTTAAATCGTAGTGTATATTTCAGTATCGCTA
query	CTGTTTGC GTTACAGATACCAAATATTTTTTAAATCGTAGTGTATATTTCAGTATCGCTA
template	CACCAGTGATGTAGTTAATGAAAGGGAATCGAAAGCGTTCATTGTCAGACATACATGG
query	CACCAGTGATGTAGTTAATGAAAGGGAATCGAAAGCGTTCATTGTCAGACATACATGG
template	CCACCAGGCGCCGGGCAATCGTTGTA CTCTAAGAGATTACAGTAAAGTAAAACAGCAAAT
query	CCACCAGGCGCCGGGCAATCGTTGTA CTCTAAGAGATTACAGTAAAGTAAAACAGCAAAT
template	TTAATCATTATCAGATTTGTAAAAGGAATTCATTTTCGGTAACGACATTGCGCATGTAATA
query	TTAATCATTATCAGATTTGTAAAAGGAATTCATTTTCGGTAACGACATTGCGCATGTAATA
template	ACGTATCTGGTCTTATTACCTTTGTAGTAAGAAGGCGTTATCTACTTGCGCAGTAGTCGC
query	ACGTATCTGGTCTTATTACCTTTGTAGTAAGAAGGCGTTATCTACTTGCGCAGTAGTCGC
template	CCAGGAAGAAAAATCATTACCGAAGCTGTGGTCAGTTTTCAAAAAAGGATAAATAAATGA
query	CCAGGAAGAAAAATCATTACCGAAGCTGTGGTCAGTTTTCAAAAAAGGATAAATAAATGA
template	GAAATGTAATTATATACGGTATTAAC TGGACTAATTGTTATGCCCTACAGTCTATTTTTA
query	GAAATGTAATTATATACGGTATTAAC TGGACTAATTGTTATGCCCTACAGTCTATTTTTA
template	AGCAAAAATATCCGGAAAAGTGC GTTAAAACGTGTAAC TCATTAAC TGCAC TTTTGCATT
query	AGCAAAAATATCCGGAAAAGTGC GTTAAAACGTGTAAC TCATTAAC TGCAC TTTTGCATT
template	CCCTATCCGATATGCCGACGCCGGGCTGATTTTAGCTTTGAACCCGATGAGCATGTTT
query	CCCTATCCGATATGCCGACGCCGGGCTGATTTTAGCTTTGAACCCGATGAGCATGTTT
template	ATCTTTTTCATGCGTTGCTGACGCGGTTGCAGAACCGTAAAGTTTTGGTAGTGGCAGATC
query	ATCTTTTTCATGCGTTGCTGACGCGGTTGCAGAACCGTAAAGTTTTGGTAGTGGCAGATC
template	GCTTGTATTATATCGATCGCTGTGTGCTGCAATATTTTGGCGTTATGGATTATGTTTTAA
query	GCTTGTATTATATCGATCGCTGTGTGCTGCAATATTTTGGCGTTATGGATTATGTTTTAA
template	AAGACGAAC TATCCTGCGCTATCCGCTCGGAGCGAGAGAAGCTCCGTCTTCCGGAAGCCT
query	AAGACGAAC TATCCTGCGCTATCCGCTCGGAGCGAGAGAAGCTCCGTCTTCCGGAAGCCT
template	GGCTGCGTTTCTGCCACAGGCCACAAAAGAAAACCGTGGCTGCTACGTATGCTTTTAATG
query	GGCTGCGTTTCTGCCACAGGCCACAAAAGAAAACCGTGGCTGCTACGTATGCTTTTAATG
template	CCGGCGAGACGCCGGAAGAGGTATTGTTTAATATCAATCAATACGCCTGGTGGAATCTAC
query	CCGGCGAGACGCCGGAAGAGGTATTGTTTAATATCAATCAATACGCCTGGTGGAATCTAC
template	CTCCCGGTGTACG CAGGCGAAATATGCGCTGCTGATATTATTATCCTCCGGACATCCGG
query	CTCCCGGTGTACG CAGGCGAAATATGCGCTGCTGATATTATTATCCTCCGGACATCCGG
template	CAATTGAACTGGCGAAAAAATTTGGTCTGGGAACAAAAACCGTCAGTATTTATCGTAAGA
query	CAATTGAACTGGCGAAAAAATTTGGTCTGGGAACAAAAACCGTCAGTATTTATCGTAAGA
template	AGGTTATGTATCGTTTGGGGATGGACTCTTCACCGCTATCGCTGTTCCGGGGACTGAAAC
query	AGGTTATGTATCGTTTGGGGATGGACTCTTCACCGCTATCGCTGTTCCGGGGACTGAAAC
template	TAGACGCGCATTTACAGCGCACTGCTTTTGCACATAACCCTGCTGTACCTGACGATAATT
query	TAGACGCGCATTTACAGCGCACTGCTTTTGCACATAACCCTGCTGTACCTGACGATAATT
template	GCGCGTTACCGATTGCGGTAGGAATGAATTAATAATTTTTATCATTATGACCATGTG
query	GCGCGTTACCGATTGCGGTAGGAATGAATTAATAATTTTTATCATTATGACCATGTG

template	TTGAGCTTTTATTATAAAAAAGATTTTTTGGAGTAGTAATTCCTATATATAATCATCCGGA
query	TTGAGCTTTTATTATAAAAAAGATTTTTTGGAGTAGTAATTCCTATATATAATCATCCGGA
template	GGTGGTTGGTAGCCTGGCTCAATCATTGAGGCATATTTTGCAGGCAATATATTGAATCT
query	GGTGGTTGGTAGCCTGGCTCAATCATTGAGGCATATTTTGCAGGCAATATATTGAATCT
template	GAAAAGTTAAAGATGATATTTTCGGTGCAGGAGCTATCATGTGGAGGGAAAAGTATGCTA
query	GAAAAGTTAAAGATGATATTTTCGGTGCAGGAGCTATCATGTGGAGGGAAAAGTATGCTA
template	AGTCCTACGACTCGTAATATGGGGGCGAGTTTATCGCCTCAGCCTGACGTACGCGGGGAG
query	AGTCCTACGACTCGTAATATGGGGGCGAGTTTATCGCCTCAGCCTGACGTACGCGGGGAG
template	CTAAACACCGAAGCATTGACCTGTATTGTTGAGCGTCTGGAAAGTGAAATTATAGATGGC
query	CTAAACACCGAAGCATTGACCTGTATTGTTGAGCGTCTGGAAAGTGAAATTATAGATGGC
template	AGCTG
query	AGCTG

### ***SPI-1\_AY956822***

template	GGCTCAAGGGGCGCTCATTTCAGTACGGGGCGGAAGGTTATATCAAAATGAGCCAGGCC
query	GGCTCAAGGGGCGCTCATTTCAGTACGGGGCGGAAGGTTATATCAAAATGAGCCAGGCC
template	ATTGGTATTTCCCAAGCCACTTTAATTTAACGTAAATAAGGAAGTCATTATGGCAACAC
query	ATTGGTATTTCCCAAGCCACTTTAATTTAACGTAAATAAGGAAGTCATTATGGCAACAC
template	CTTGGTCAGGCTATCTGGATGACGTCTCAGCAAAATTTGATACGGGCGTTGATAATCTAC
query	CTTGGTCAGGCTATCTGGATGACGTCTCAGCAAAATTTGATACGGGCGTTGATAATCTAC
template	AAACGCAGGTAACAGAGGCGCTGGATAAATTAGCAGCAAAACCTCCGATCCGGCGCTAC
query	AAACGCAGGTAACAGAGGCGCTGGATAAATTAGCAGCAAAACCTCCGATCCGGCGCTAC
template	TGGCGGCGTATCAGAGTAAGCTCTCGGAATATAACTTGACCGTAACGCGCAATCGAACA
query	TGGCGGCGTATCAGAGTAAGCTCTCGGAATATAACTTGACCGTAACGCGCAATCGAACA
template	CGGTAAAAGTCTTTAAGGATATTGATGCTGCCATTATTCAGAACTTCCGTTAATCAGTTA
query	CGGTAAAAGTCTTTAAGNATATTGATGCTGCCATTATTCAGAACTTCCGTTAATCAGTTA
template	TAAGGTGGATTATGTCGATTGCAACTATTGTCCCTGAGAATGCCGTTATAGGGCAGGCGG
query	TAAGGTGGATTATGTCGATTGCAACTATTGTCCCTGAGAATGCCGTTATAGGGCAGGCGG
template	TCAATATCAGGTCTATGGAA
query	TCAATATCAGGTCTATGGAA

### ***SPI-1\_AY956823***

template	CGCTTGAAGAGGTCAATGGCCACATGGATTTTCGATATACTCGAGATACCGACGCAACGAC
query	CGCTTGAAGAGGTCAATGGCCACATGGATTTTCGATATACTCGAGATACCGACGCAACGAC
template	TTGGCGCTCTCTATGCACTTATCCCAAACGAGCAGCAAAACAAAATGGCGGTACCCACAG
query	TTGGCGCTCTCTATGCACTTATCCCAAACGAGCAGCAAAACAAAATGGCGGTACCCACAG
template	AGAAAGCGCAGAAGATCTTCTATACGCCTGACTTTCCTGCCAGAAGAGAGGTATTGAAAC
query	AGAAAGCGCAGAAGATCTTCTATACGCCTGACTTTCCTGCCAGAAGAGAGGTATTGAAAC
template	ATCTGAAAACGGCGTTCTCCTGTACGAAGGATACAAGCAAAGGTTGCAGTAACTGTAACA
query	ATCTGAAAACGGCGTTCTCCTGTACGAAGGATACAAGCAAAGGTTGCAGTAACTGTAACA
template	ACAAAAGTTGTATTGAAAATGAAGAGTTAATTCCTTATTTTCTGCTGTTCTGCTTACTG
query	ACAAAAGTTGTATTGAAAATGAAGAGTTAATTCCTTATTTTCTGCTGTTCTGCTTACTG
template	CTTTTCTCCGACTCCCGGAGAGTTATGAGATCATCCTTAGCTCGGCTCAGATAACGTTAA
query	CTTTTCTCCGACTCCCGGAGAGTTATGAGATCATCCTTAGCTCGGCTCAGATAACGTTAA
template	AGGAGCGCGTTTACAACATTATATCTTCGTACCCAGTAGACAGTGGAAGCTTACGGATG

query AGGAGCGCGTTTACAACATTATATCTTCGTCACCAGTAGACAGTGGAAGCTTACGGATG

template TTGCCGATCA

query TTGCCGATCA

### SPI-1\_AY956824

template TTTCCAAAATGGGAGGCTGGTTATTACCAGGTAAGGACGGTAATACCGTTAAGCTAGATG

query TTTCCAAAATGGGAGGCTGGTTATTACCAGGTAAGGACGGTAATACCGTTAAGCTAGATG

template TTACCTCACTCAAAAATGATTTAAACAGTTTAGTCAATAAATATAATCAAATAAACAGTA

query TTACCTCACTCAAAAATGATTTAAACAGTTTAGTCAATAAATATAATCAAATAAACAGTA

template ATACCGTTTTATTTCCAGCGCAGTCAGGCAGCGGCGTTAAAGTAGCCACTGAAGCGGAAG

query ATACCGTTTTATTTCCAGCGCAGTCAGGCAGCGGCGTTAAAGTAGCCACTGAAGCGGAAG

template CGAGACAGTGGCTCAGTGAATTGAATTTACCGAATAGCTGCCTGAAATCTTATGGATCCG

query CGAGACAGTGGCTCAGTGAATTGAATTTACCGAATAGCTGCCTGAAATCTTATGGATCCG

template GTTATGTCGTACCGTTGATCTGACGCCATTACAAAAATGGTTCAAGGATATTGATGGTT

query GTTATGTCGTACCGTTGATCTGACGCCATTACAAAAATGGTTCAAGGATATTGATGGTT

template TAGGCGCGCCGGGAAAAGACTCAAACTCGAAATGGATAACGCCAAATATCAAGCTTGGC

query TAGGCGCGCCGGGAAAAGACTCAAACTCGAAATGGATAACGCCAAATATCAAGCTTGGC

template AGTCGGGTTTTAAAGCGCAGGAAGAAAATATGAAAACCACATTACAGACGCTGACGCAA

query AGTCGGGTTTTAAAGCGCAGGAAGAAAATATGAAAACCACATTACAGACGCTGACGCAA

template AATATAGCAATGCCAATTCATTGTACGACAACC TGGTAAAAGTGCTGAGC

query AATATAGCAATGCCAATTCATTGTACGACAACC TGGTAAAAGTGCTGAGC

### SPI-1\_AY956825

template GTCTGGCGGTGACGCTGGCGCGCAACGTCAATGAATATTTTCGGTATTCAGGAAACAAAAC

query GTCTGGCGGTGACGCTGGCGCGCAACGTCAATGAATATTTTCGGTATTCAGGAAACAAAAC

template ATATGCTGGACCAACTGGAAGCGAAATTTCTGATTACTTAAAGAAGTGCTCAGACATG

query ATATGCTGGACCAACTGGAAGCGAAATTTCTGATTACTTAAAGAAGTGCTCAGACATG

template CCACGGTACAACGTATATCTGAAGTTTTGCAGCGTTTATTAAAGCGAACGTGTTTCCGTGC

query CCACGGTACAACGTATATCTGAAGTTTTGCAGCGTTTATTAAAGCGAACGTGTTTCCGTGC

template GTAATATGAATTAATTATGGAAGCGCTCGCATTGTGGGCGCCAAGAGAAAAAGATGTCA

query GTAATATGAATTAATTATGGAAGCGCTCGCATTGTGGGCGCCAAGAGAAAAAGATGTCA

template TTAACCTTGTAGAGCATATTCGTGGAGCAATGGCGCGTTATTTGTGCATAAATTCGCCA

query TTAACCTTGTGAGAGCATATTCGTGGAGCAATGGCGCGTTATTTGTGCATAAATTCGCCA

template ATGGCGGCGAATTACGAGCAGTAATGGTATCTGCTGAAGTTGAGGATGTTATTCGCAAAG

query ATGGCGGCGAATTACGAGCAGTAATGGTATCTGCTGAAGTTGAGGATGTTATTCGCAAAG

template GGATCCGTCAGACCTCTGGCAGTACCTTCCTCAGCCTTGACCCGGAAGCCTCCGC

query GGATCCGTCAGACCTCTGGCAGTACCTTCCTCAGCCTTGACCCGGAAGCCTCCGC

### SPI-1\_JN982040

template TTCGTTATGGCGTAGCCTGGCGGTGGGCTTTGTTGTCTTCTCTATTGTCAACCGTGGT

query TTCGTTATGGCGTAGCCTGGCGGTGGGCTTTGTTGTCTTCTCTATTGTCAACCGTGGT

template CAGTTTATCGTTATTACCAAAGGTTCAGAACGTGTCGCGGAAGTCGCGGCCGATTTTCT

query CAGTTTATCGTTATTACCAAAGGTTCAGAACGTGTCGCGGAAGTCGCGGCCGATTTTCT

template CTGGATGGTATGCCCGGTAACAGATGAGTATTGATGCCGATTTGAAGGCCGGTATTATT

query CTGGATGGTATGCCCGGTAACAGATGAGTATTGATGCCGATTTGAAGGCCGGTATTATT

template	GATGCGGATGCCGCGCGCAACGGCGAAGCGTACTGGAAAGGGAAGCCAGCTTTACGGT
query	GATGCGGATGCCGCGCGCAACGGCGAAGCGTACTGGAAAGGGAAGCCAGCTTTACGGT
template	TCCTTTGACGGTGCGATGA
query	TCCTTTGACGGTGCGATGA

***SPI-1\_U16303***

template	GTTTCGGAAGCATCCGTTTCCCTCTTAATTTTGTTGAAATTTCTCTTTGTTGCGAGCATGG
query	GTTTCGGAAGCATCCGTTTCCCTCTTAATTTTGTTGAAATTTCTCTTTGTTGCGAGCATGG
template	TCTGAACTAATTGCCTGGCAGCTTGCCTTGTTTCGTCAATATTTGGAAAATCGAACACAT
query	TCTGAACTAATTGCCTGGCAGCTTGCCTTGTTTCGTCAATATTTGGAAAATCGAACACAT
template	TTCCAACTTTTACTTTCAAGACAGAACTTGGCTTCTACCCCTCACTGACATTACGATCTG
query	TTCCAACTTTTACTTTCAAGACAGAACTTGGCTTCTACCCCTCACTGACATTACGATCTG
template	ACGAGGCTACTCTTCGCTGGATTACGTAGGTTTTTTTCGTCAAACCTGGCTTTTACCCCGA
query	ACGAGGCTACTCTTCGCTGGATTACGTAGGTTTTTTTCGTCAAACCTGGCTTTTACCCCGA
template	AACCAGCAGGAGCTTCTCTGTGGTCATCGAAAACAGGTAGAGTTTTTGAGCTGGGTTAG
query	AACCAGCAGGAGCTTCTCTGTGGTCATCGAAAACAGGTAGAGTTTTTGAGCTGGGTTAG
template	CTTCGAAAACGAATTTTTCCAGAGCGACTGAGTGCAGGCTTAACATTGATACTTAACCTG
query	CTTCGAAAACG-ATTTTTCAGAGCGACTGAGTGCAGGCTTAACATTGATACTTAACCTG
template	TTGAT-ATGAAAGGCTGGCTGAGAGTTGTTTTCAAACATCACCC-TGTTGTAGT-CAAG
query	TTGATAATGAAAGGCTGGCTGAGAGTTGTTTTCAAAGTATCACCCCTGTTGTAGTCCAGG
template	-ATGATGAG-ATGTAA-CTGTCACA-TTTAGGCTACAGGTGAGCTACAAATTTATGGGTT
query	AATGATGAGAATGTAACTGTCACA-TTTAGGCTACAGGTGAGCTACAAATTTATGGGTT
template	TATGTGAGTTTATAAGGGTTTTACCTGGGGCCACATGAGCACTTGAAAGAATAAAAAAC
query	TATGTGAGTTTATAAGGGTTTTACCTGGGGCCACATGAGCACTTGAAAGAATAAAAAAC
template	GAGTAAAATCAATATGAATGAGTCATTTGATAAGGACTTCTCCAACCAACCCCGATGAT
query	GAGTAAAATCAATATGAATGAGTCATTTGATAAGGACTTCTCCAACCAACCCCGATGAT
template	GCAGCAGTATCTCAAGCTGAAAGCCCAGCATCCGGAGATCCTGCTCTTTTATCGTATGGG
query	GCAGCAGTATCTCAAGCTGAAAGCCCAGCATCCGGAGATCCTGCTCTTTTATCGTATGGG
template	AGACTTTTACGAGCTGTTTTATGACGACGCAAAGCGTGCCTCGCAGTTGCTCGATATTTT
query	AGACTTTTACGAGCTGTTTTATGACGACGCAAAGCGTGCCTCGCAGTTGCTCGATATTTT
template	GCTGACCAAACGCGGCGCATCGGCTGGCGAACCTATCCCTATGGCGGGTATCCCGACCA
query	GCTGACCAAACGCGGCGCATCGGCTGGCGAACCTATCCCTATGGCGGGTATCCCGACCA
template	CGCCGTAGAAAACACCTCGCGAAACTGGTCAATCAGGGCGAATCCGTCGCTATTTGCGA
query	CGCCGTAGAAAACACCTCGCGAAACTGGTCAATCAGGGCGAATCCGTCGCTATTTGCGA
template	ACAGATTGGCGATCCGGCCACCAGCAAAGGTCCC GTTGAACGTAAGGTCGTGCGTATCGT
query	ACAGATTGGCGATCCGGCCACCAGCAAAGGTCCC GTTGAACGTAAGGTCGTGCGTATCGT
template	TACGCCTGGCACTATCAGCGATGAAGCCCTGTTACAGGAGCGTCAGGATAACCTGCTGGC
query	TACGCCTGGCACTATCAGCGATGAAGCCCTGTTACAGGAGCGTCAGGATAACCTGCTGGC
template	GGCTATCTGGCAGGATGGTAAAGGTTACGGTTACGCCACGCTGGATATCAGCTCCGGGCG
query	GGCTATCTGGCAGGATGGTAAAGGTTACGGTTACGCCACGCTGGATATCAGCTCCGGGCG
template	CTTTCTGCTGAGCGAACC CGCGACCGTGAAACGATGGCCGAGAGCTGCAGCGCACCAA
query	CTTTCTGCTGAGCGAACC CGCGACCGTGAAACGATGGCCGAGAGCTGCAGCGCACCAA
template	TCCCGCCGAAC TGTTGTATGCCGAAGATTTTGCTGAAATGGCGTTAATAGAGGGACGCCG
query	TCCCGCCGAAC TGTTGTATGCCGAAGATTTTGCTGAAATGGCGTTAATAGAGGGACGCCG
template	GGGTCTGCGCCGTGCGCCGTTGTGGGAGTTTGAGATTGATACCGCCGCCAGCAGTTAAA
query	GGGTCTGCGCCGTGCGCCGTTGTGGGAGTTTGAGATTGATACCGCCGCCAGCAGTTAAA

template	TCTGCAGTTCGGTACGCGGGATCTGGTCGGTTTCGGCGTCGAAAAATGCCTCGCGTGGATT
query	TCTGCAGTTCGGTACGCGGGATCTGGTCGGTTTCGGCGTCGAAAAATGCCTCGCGTGGATT
template	ATGTGCGGCAGGCTGCCTGTTACAGTACGTAAAAGATACCCAGCGCACCTCCCTGCCGCA
query	ATGTGCGGCAGGCTGCCTGTTACAGTACGTAAAAGATACCCAGCGCACCTCCCTGCCGCA
template	TATTCGTTCCATTACGATGGAACGCCAGCAGGACAGCATCATTATGGATGCCGCGACCCG
query	TATTCGTTCCATTACGATGGAACGCCAGCAGGACAGCATCATTATGGATGCCGCGACCCG
template	CCGCAATCTGGAATTAACCCAGAACCTGGCCGGTGGTGTGCGAAAAATACCCTCGCCGCGGT
query	CCGCAATCTGGAATTAACCCAGAACCTGGCCGGTGGTGTGCGAAAAATACCCTCGCCGCGGT
template	GCTTGACTGTACCGTGACGCCAATGGGTAGCCGAATGCTTAAACGCTGGCTGCATATGCC
query	GCTTGACTGTACCGTGACGCCAATGGGTAGCCGAATGCTTAAACGCTGGCTGCATATGCC
template	GGTACGAAATACCGACATATTACGTGAACGCCAGCAGACCATCGGCGCCTTGCAGGACAC
query	GGTACGAAATACCGACATATTACGTGAACGCCAGCAGACCATCGGCGCCTTGCAGGACAC
template	CGTCAGCGAACTGCAACCGGTGCTGCGTCAGGTCGGCGATTGGAGCGTACTCCTTGCGC
query	CGTCAGCGAACTGCAACCGGTGCTGCGTCAGGTCGGCGATTGGAGCGTACTCCTTGCGC
template	GTCTGGCGCTGCGCA--GC-CGTCCGCGCATCTCGCCGAATGCGTCACGCCTTCCAGC
query	GTCTGGCGCTGCGCACCCGCGTCCGCGCATCTCGCCGAATGCGTCACGCCTTCCAGC
template	AGCTGCC--GAATTGCACGCTCAGCTTGAAACCGTTGACAGCGCGCCGGTACA--GCGTTGC
query	AGCTGCC--GAATTGCACGCTCAGCTTGAAACCGTTGACAGCGCGCCGGTACAGCGTTGC
template	GTAAAAAATGGGCGATTTCGCCGAGCTGCGCGACCTCCTGGAACGCGCCATTATTGACG
query	GTAAAAAATGGGCGATTTCGCCGAGCTGCGCGACCTCCTGGAACGCGCCATTATTGACG
template	CGCCGCCGGTACTGGTC--GCGACGGC--GCGTTATTGCGCCCGGCTACCATGAAGAGCTGG
query	CGCCGCCGGTACTGGTC--GCGACGGC--GCGTTATTGCGCCCGGCTACCATGAAGAGCTGG
template	ACGAATGGCGCGCGCTGGCGGACGGCGCCACCATTATCTCGATCGTCTGGAATTCGCG
query	ACGAATGGCGCGCGCTGGCGGACGGCGCCACCATTATCTCGATCGTCTGGAATTCGCG
template	AGCGCGAGCGTACCGGGCTGGATACGCTGAAAGTCGGCTATAACGCGGTACATGGTTATT
query	AGCGCGAGCGTACCGGGCTGGATACGCTGAAAGTCGGCTATAACGCGGTACATGGTTATT
template	ACATTCAGATTAGCCGTGGTCAAAGCCATCTGGCGCCCATCAATTATGTGCGTCGCCAGA
query	ACATTCAGATTAGCCGTGGTCAAAGCCATCTGGCGCCCATCAATTATGTGCGTCGCCAGA
template	CGCTGAAAAATGCCGAACGCTACATTATTCCTGAGCTTAAAGAGTACGAAGATAAAGTTC
query	CGCTGAAAAATGCCGAACGCTACATTATTCCTGAGCTTAAAGAGTACGAAGATAAAGTTC
template	TGACCTCGAAAGGCAAAGCGCTGGCGCTGGAAAAACAGCTATATGACGAATTGTTTGATC
query	TGACCTCGAAAGGCAAAGCGCTGGCGCTGGAAAAACAGCTATATGACGAATTGTTTGATC
template	TGCTGTTGCCGCATCTGGCCGATTACAGCAGAGCGCCAACGCGCTGGCGGAGCTGGATG
query	TGCTGTTGCCGCATCTGGCCGATTACAGCAGAGCGCCAACGCGCTGGCGGAGCTGGATG
template	TGCTGGTTAACCTGGCCGAACGCGCTGGACGCTGAATTACACCTGCCCGACATTACCG
query	TGCTGGTTAACCTGGCCGAACGCGCTGGACGCTGAATTACACCTGCCCGACATTACCG
template	ATAAACCCGGTATCCGTATTACCGAAGGTCGCCACCCGGTGGTTGAACAGGTACTGAATG
query	ATAAACCCGGTATCCGTATTACCGAAGGTCGCCACCCGGTGGTTGAACAGGTACTGAATG
template	AGCCGTTTATCGCTAACCCGCTCAATTTATCGCCGACGCGCCGATGTTGATCATTACCG
query	AGCCGTTTATCGCTAACCCGCTCAATTTATCGCCGACGCGCCGATGTTGATCATTACCG
template	GCCCCAATATGGGCGGTAAAAGTACCTATATGCGACAACCGCATTGATTGCCCTGCTGG
query	GCCCCAATATGGGCGGTAAAAGTACCTATATGCGACAACCGCATTGATTGCCCTGCTGG
template	CCTATATCGGCAGTTACGTTCCGGCGCAAAACGTGGAAATCGGCCCATCGACCGTATTT
query	CCTATATCGGCAGTTACGTTCCGGCGCAAAACGTGGAAATCGGCCCATCGACCGTATTT
template	TTACCCGCGTCGGCGCAGCGGACGACCTGGCCTCCGGGCGTTTCGACCTTTATGGTGGAGA
query	TTACCCGCGTCGGCGCAGCGGACGACCTGGCCTCCGGGCGTTTCGACCTTTATGGTGGAGA

template query	TGACCGAAACCGCGAACATTCTGCATAATGCCACGGAAACAGCTGGTATTGATGGATG TGACCGAAACCGCGAACATTCTGCATAATGCCACGGAAACAGCTGGTATTGATGGATG
template query	AAATCGGGCGCGGTACCTCCACGTATGACGGGCTGTCTGTTGGCCTGGGCTGCGCGGAGA AAATCGGGCGCGGTACCTCCACGTATGACGGGCTGTCTGTTGGCCTGGGCTGCGCGGAGA
template query	ATCTCGGAATAAGATTAAGCGTTAACGCTGTTGCTACCCACTACTTCGAGCTGACCC ATCTCGGAATAAGATTAAGCGTTAACGCTGTTGCTACCCACTACTTCGAGCTGACCC
template query	AATTACCGGAGAAAATGGAAGGCGTGGCGAACGTCCACCTGGATGCGCTGGAACACGGCG AATTACCGGAGAAAATGGAAGGCGTGGCGAACGTCCACCTGGATGCGCTGGAACACGGCG
template query	ATACTATCGCGTTTATGCACAGCGTGCAGGACGGCGGGCAAGTAAGAGCTATGGCCTGG ATACTATCGCGTTTATGCACAGCGTGCAGGACGGCGGGCAAGTAAGAGCTATGGCCTGG
template query	CGGTCGCGGCGCTTGCGGGCGTCCCTAAAGAAGTCATCAAACGCGCGGCCAGAACTCC CGGTCGCGGCGCTTGCGGGCGTCCCTAAAGAAGTCATCAAACGCGCGGCCAGAACTCC
template query	GCGAGCTGGAAGCATCTCGCCCAATGCGGCGGCAACGCAGGTGGACGGCACGCAATGT GCGAGCTGGAAGCATCTCGCCCAATGCGGCGGCAACGCAGGTGGACGGCACGCAATGT
template query	CGTTGCTTGCCGCCCGGAGGAGACATCGCCTGCCGTTGAAGCGCTGGAGAATCTCGATC CGTTGCTTGCCGCCCGGAGGAGACATCGCCTGCCGTTGAAGCGCTGGAGAATCTCGATC
template query	CGGACTCCCTGACGCCACGCCAGGCGCTGGAGTGGATCTATCGGCTGAAAAGTCTGGTGT CGGACTCCCTGACGCCACGCCAGGCGCTGGAGTGGATCTATCGGCTGAAAAGTCTGGTGT
template query	AAACGTGTCAGACCCGATAGCGCCGCGCTATCGGG AAACGTGTCAGACCCGATAGCGCCGCGCTATCGGG

# ***SPI-12\_NC\_006905***

template query	CGGCACGTAGCGCAGCCTGGTAGCGACCGTCATGGGGTGTGGGGGTCGGAGGTTCAA SAGACCACCAGCACGATAGATAACCGACTCATTACRGAACACATCAGAACAGCAGGATC
template query	TCCTCTCGTGCCGACCAAAATTCCCTTAAAAGCCAGCCTGCCAGGGCTGGTTTTTTTAT ATCCGCCAGCGGCTGTGATACCGCCGGGACCGCGCCGCGWGGCGAAAGATGAAWATTGYTC
template query	ATATCCAATTTGCAAATGGTGAAATGATGGTGAAATAGCTATCGAAGGTCACTGCAAATT CGGCTCTGGTTCAAGCAGAACACGCCCTGCATAAACAGGGGCATCAGTTCGGMTCCCGG
template query	GACTTCAAGCTCCCTCCAACGCGAAAAGTTGAACAGATGACTATAAATACATTGATTAGT CCTGAACAATACAACGCCCATACGAGGAGCAATTTACGGGGTCAGTAACGCTCTCACGAT
template query	CATCCTTAACCAGTAGAATCCGCCACGACTGGTAACTATTCAATACACGCACTATCGAAC CACCTCAATGAACGGTATCGAGCAGCTTCAGCAGCTCAGGGAATTTGGAYTCGAAGAAAT
template query	GATCGCCAGTTTGCCGAGCCCGTTCTTGATACAATGTGGCTGCGGCACACCATCACAT GCGGYTGCGTCTCGCGAGGGTTTGCCGGGCTGGTGATGTTTTTGCCGAACATGCAGCCTT
template query	CAGAAATTTGAAAATCAGGGCTAAACCTGTCACTTAACCTGAAGCGGGTGGTGATCGGG TYGCCGTACGCGACCAGAATTTTAAATGCCGTAAATCGCGGAGCGACTGTAACGCTCAC
template query	ATGACAGTATGTTTCTTTCATAGCCCACTGTTGCTGGATACCTCCCCGGCAAAGTACA GATGTTCAACAACACCCAGCTTTGCTAACTGCTGATACGCCTGATTAGCCGTATCCgga
template query	GCTTTCCTCGCCCTTCTTTGCATTAGGTGATCCAGTACTTCCATCGGCTTCTCGCTAC tatttcacCTGTACATCATCCGTACTGTCTGATGTTGTTGCTCCGGGAATATCTTTGTCG
template query	CGGCGCGCGGCGGTTATCATCGAAAAAGTTGCGCGCGGCCCTGACTGAAGAAGTCTCCC CACCGCACCTCATTACCTGGTGATCAGTTACGACGCCACTGAACGTTCAGATAGCTCC
template query	CTATTTACCTGTACATCATCCGTACTGTCTGATGTTGTTGTCGTCGGGAATATCTTTGTC CCAGCATCTCCTCCACAAGAGGTCGCAGGCCATCCAAAAATGCTTTTTTCGCGCTCTCCA
template query	GCACCGCACCTCATTACCTGGTGATCAGTTACGACGCCACTGAACGTTTCAGATAGCTC TCGCTCTTGCTCCGATAGTGCCTCTGCATCGGTATTACCGACCGCCAGACGGTCTCA

template query	CCAGCATCTCTCCACAAGAGGTGCGAGGCCATCCAAAAATGTCCTTTTTCGCGCTCTCCGCTCTGTGTCTCAGACAGCATCCGGTACGTTTCTCTATAATCCGATATTTGCTTTTCACGAA
template query	ATCGCTCTTGCTCCGATAGTGCCTCTGCATCGGTATTACCGACCAGCCCAGACGGTCTCGCGGTTAACGCGTTCCGGCGCTTTGCGCTCCAGCACTCTGTGTAACGGCCCCCACTGCA
template query	AGCTCTGTGTCTCAGACAGCATCCGGTACGTTTCTCTATAATCCGATATTTGCTTTTCACGAGTATCCACTCCCTGAACTCGCTTTTTCAGCGGCTTTCACCTGAAGCTCCGCGTCTGAA
template query	AGCGCGTTAACGCGTTCCGGCGCTTTGCGCTCCAGCACTCTGTGTAACGGCCCCCACTGCGGTCTGTAACCGTCACGCCGATACGTCAAAGAAACGCATTCTGACGTCACGCTGGTCA
template query	AGTATCCACTCCCTGAACTCGCTTTTTCAGCGGCTTTCACCTGAAGCTCCGCGTCTGAGCCCCGAGTGATTTCTCAGCTTATTCTGATACGCCAGCCAGACCTCAATTTTCATCAACGA
template query	AGGTCTGTAACCGTCACGCCGATACGTCAAAGAAACGCATTCTGACGTCACGCTGGTCGAGCCAGCGTTCTGACCTTTTCCCGGGCAATCTGTTCCAGTTTTCAGACGGAACATCT
template query	AGCCCCGAGTGATTTCTTCAGCTTATTCTGATACGCCAGCCAGACCTCAATTTTCATCAACGCACGCCCCGTGGCAACGAGCGCCGAGATCGTTATCGTATTGCCCTTTTCTGCATTAT
template query	AGAGCCAGCGTTCTGACCTTTTCCCGGCAATCTGTTCCAGTTTTCAGACGGAACATCTGTACCAGCTGTACGTTCTTCATCTGGTGCAAAAAAATGTGACCCGGTCTCGCAGCTTG
template query	CACGCCCCGTGGCAACGAGCGCCGAGATCGTTATCGTATTGCCCTTTTCTGCATTATAGGTTGCCCTCTGTGCCATAGCAAAGGTGTTTGCTCTTAACGCCTCATCTTCAGCCAGTT
template query	GTACCAGCTGTACGTTCTTCATCTGGTGCAAAAAAATGTGACCCGGTCTCGCAGCTTGGTGCCAGCCAGGACGATATCTGTGCCTTAAACCCCGCGTCTTTATGAAGTTTCCGCTCT
template query	AGGTTGCCTCTGTGCCATAGCAAAGGTGTTTGCTCTCAACGCCTCATCTTCAGCCAGTTCACTCAGTCTGTCCAGGAAGAGGCTGAATGCGTCGGCGTTATCTTCTGTCCGAACATAT
template query	GTGCCAGCCAGGACGATATCTGTGCCTTAAACCCCGCGTCTTTATGAAGTTTCCGTCTGCCATCTGTCTGCAGGAGCCGTTCCCTCCCGGGCAGGCACCGCAGTCAGCGGCCG
template query	CACTCAGTCTGTCCAGGAAGAGGCTGAAGGCGTCGGCGTTATCTTCTGTCCGAACATATCCAGGTGCAGTGCCCGAGTTTCCCGGGGGCGGAGGCTCCCGCCATATCGAATCGTATTA
template query	GCCATCTGTCTGCAGGAGCCGTTCCCTCCCGGGCAGGCACCGCAGTCAGCGGCCGTGGGGCTGAATAGCCAGGCGCGCTGGTGATCTCCCGCAGCGCTGCAAAGTACGTTACG
template query	CCAGGCGCAGTGCCCGAGTTTCCCGGGGGCGGAGGCTCCCGCCATATCGAATCGTATTAACAGTGGGTCCCTTCCAGATTTACGGTTGTCTCTGAAGACAGATGAATGAGACTTCCG
template query	TGGGGCTGAATAGCCAGGCGCGCTGGTGATCTCCCGCAGCGCTGCAAAGTACGTTACGTCAGGCGGGTCAGCTGGTTACGATAGACCGACAGCGACAGTAGTCTGACGGCAGCATCG
template query	ACAGTGGGTCCCTTCCAGATTTACGGTTGTCTCTGAAGACAGATGAATGAGACTTTCCG GCAGGCTGGTCAGCCGGTTACCAGATACCATCAGTCTCTCAGTTCTGACGGCAGCACCG
template query	GCAGGCGGGTCAGCTGGTTACGATAGACCGACAGCGACAGTAGTCTGACGGCAACGATCG GCAGACTGGTCAGCGGGTTACGATACAATCAGCTCCTTCAGTCTGACGGCAACGCGC
template query	GCAGGCTGGTCAGCGGTTACGATACCATCAGTCTCTTCAGTTCTGACGGCAGCACCG GCAGGCTGGTCAGCCGATTATTATAGGCCACAGCTTATATAATTCTGACGGCAGCGTCG
template query	GCAGACTGGTCAGCGGTTACGATACAATCAGTCTCTTCAGTCTGACGGCAACGCCG GCAGGCTGGCCAGTTGGTTATCAGATACCGACAGTCTCTGTAGCCCTGACGGCAACATCG
template query	GCAGGCTGGTCAGCGGATTATTATAGGCCACAGCTTATATAATTCTGACGGCAGCGTCG GCAGGCTGGTCAGCTGGTTATTATAGGCCACAGCTTACATAATTCTGACGGCAGCGCGC
template query	GCAGGCTGGCCAGTTGGTTATCAGATACCGACAGTCTGTAGCCCTGACGGCAACGTCG GCAGGCTGGCCAGTTGGTTATCAGATACCGACAGTCTGTAGCCCTGACGGCAACACCG
template query	GCAGGCTGGTCAGCTGGTTATTATAGGCCACAGCTTACATAATTCTGACGGCAGCGCCG GCAGGCTGGTCAGTTGATTACAAAGATCCACAGCTTACATAGTCTGACGGCAGCGCCG
template	GCAGGCTGGCCAGTTGGTTATCAGATACCGACAGCTCTGTAGCCCTGACGGCAACACAC

query	GCAGGTGGGTACAGCGGGTTACTAAAGAT--CGACAGTTCCAGTAGTCTCTGGCGGCAGCAC
template	CGGCAGGCTGGTCAGCTGGTTATTATAGGCCCAAGCTTACATAGTCTGACGGCAGCGC
query	CGGCAGGCTAGTCAGCTGGTTACCAGAGACCTTCAGCGTCCGCAGTTCCTGGCGGCAGCGC
template	CGGCAGGCTGGTCAGATTATTATCAGGAATAACCAAGTGTGGTAATATGCGCGGGTAAACA
query	CGGCAGGCTGGTCAGATTATTATCAGGAATAACCAAGTGTGGTAATATGCGCGGGTAAACA
template	GTCTGGCAAGGTGGTAAGACCTGATTCTCCACGTTAAGCACTGCATTGCCATTATTCAG
query	GTCTGGCAAGGTGGTAAGACCTGATTCTCCACGTTAAGCACTGCATTGCCATTATTCAG
template	GCAGGCACGCATTTTCTGTACCGCTGTGTGCACGGCCGCGTGACTCTTCTGCGGGTGACGC
query	GCAGGCACGCATTTTCTGTACCACTGTGTGCACGGCCGCGTGACTCTTCTGCGGGTGACGC
template	CCTTCTCCACGCTGACCAGACAAATCATATACTCTGTCTGGCGTCTGTGGAGCCGTTGTGGC
query	CCTTCTCCACGCTGACCAGACAGCATCATATACTCTGTCTGGCGTCTGTGGAGCCGTTGTGGC
template	AGGGAGGAAGGATGTCCTGAATGTCCCGGATGCCCTTCCGCGTGTCTGTGCCCTCCTC
query	AGGGAGGAAGGATGTCCTGAATGTCCCGGATGCCCTTCCGCGTGTCTGTGCCCTCCTC
template	ACCCTGTGCTGTGTCCAGGGTGAGGCGATGGGTTTCACTGTACCCCTGGCAATTTACGGT
query	ACCCTGTGCTGTGTCCAGGGTGAGGCGATGTGTTTCACTGTACCCCTGGCAATTTACGGT
template	ATAGTTCCTGCATCATCAAGGGTGACTGACAAATCTCTCTGACTGTCTTCATCCAGAAT
query	ATAGTTCCTGCATCATCAAGGGTGACTGACAAATCTCTCTGACTGTCTTCATCCAGAAT
template	ACAGAAGTAGTTTTTCCCGTGCAAGCCGGAATGAATGTTTTCTCCCATCCGTATACGC
query	ACAGAAGTAATTTTTCCCGTGCTGGCCGGAATGAATGTTTTCTCCCATCCGGTATACGC
template	GAGCGTCTGAGCAGTTCAAATCTGTGACACATCCTCCGCGTCGTTCCGGCCGGCGG
query	GAGCGTCTGAGCAGTTCAAATCTGTTGATCACATCCTCCGCGTCGTTCCGGCCGGCGG
template	GTGACAAATCGCCAGATGCACTCCAGCGCTTCAGTCTGGTGCGTTGAGCAAAAAAATTC
query	GTGACAAATCGTCCAGATGCACTCCAGCGCTTCAGTCTGGTGCGTTGAGCAAAAAAATTC
template	CTTCATTTTTTCCAGGAACCTATTTCAAGGGGGGGTATCAGACCAGGCAATACGATAAA
query	CTTCATTTTTTCCAGGAACCTATTTCAAGGGGGGGTATCAGACCAGGCAATACGATAAA
template	TGCGACGGTTACTGATGGTGGCGGGAAGACATCCGCTTCCAATATGAAAGGGCATAACAA
query	TGCGGCGTTACTGATGGTGGCGGGAAGACATCCGCTTCCAATATGAAAGGGCATAACAA
template	AAAACCTTTATAAAATTTACATATAGTATCTGTCCGGCAGACATCATCTCTTCTGGTCTT
query	AAAACCTTTATAAAATTTACATATAGTATCTGTCCGGCAGACATCATCTCTTCTGGTCTT
template	AATTTACAATAAGGTTATCGGCGGATTATGGTCGTCTGTCCATGGCGGGCTTCAGAAG
query	AATTTACAATAAGGTTATCGGCGGATTATGGTCGTCTGTCCATGGCGGGCTTCAGAAG
template	GTGCAGAAGAAAAATCCGTTATGATGACCGGATGGCGGGACTGTCATTTTACAGCTAAAG
query	GTGCAGAAGAAAAATCCGTTATGATGACCGGATGGCGGGACTGTCATTTTACAGCTAAAG
template	TGTCGA-TTTTTCAGGGTCGCTTTCCACGATGACCAGATCATCCGGTATCAACGCCCGGG
query	TGTCGATTTTTTCAGGGTCGCTTTCCACGATGACCAGATCATCCGGTATCAACGCCCGGG
template	CGTTCAATTTTTCGATTCTGCCTGCCTGCGCAGCTCTTCCGGCGAATAAACCTTTGAACG
query	CGTTCAATTTTTCGATTCTGCCTGCCTGCGCAGCTCTTCCGGCGAATAAACCTTTGAACG
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query	ACTTTACTGTCTTTAAACTGCCAGCAGCATGAAATATCAGCGCGACGGTTTTCATCCGTA
template	TCAGGCAACTCTGCAACGCTCTGGCCAGCAGGCCACAGCCCAGAAACATCATGCGTAATA
query	TCAGGCAACTCTGCAACGCTCTGGCCAGCAGGCCACAGCCCAGAAACATCATGCGTAATA
template	CACGTAATAACATCGTTATCGTCGTAGGTAATTTTCAGCGTGTCTGCTGAAAAATAATTGC
query	CACGTAATAACATCGTTATCGTCGTAGGTAATTTTCAGCGTGTCTGCTGAAAAATAATTGC
template	TGGCACCCATACCAAGTCTGACCATCCTCTGATTTAAGATACGCCGCATCGGCGAATAAT
query	TGGCACCCATACCAAGTCTGACCATCCTCTGATTTAAGATACGCCGCATCGGCGAATAAT
template	GTGTCATCTGGTTCGGGTGCATACGGAATGAAATTTTTAATATTTAAAAACTGTTTGTTT
query	GTGTCATCTGGTTCGGGTGCATACGGAATGAAATTTTTAATATTTAAAAACTGTTTGTTT



template	TTTTTA	TTTTTTTCCGCTGTCATAATTATTCCTTCTTATACACTTGGGGCTGTCAACCA
query	TTTTTA	TTTTTTTCCGCTGTCATAATTATTCCTTCTTATACACTTGGGGCTGTCAACCA
template		
template	CGTATCACCAACCAGATACTGAATGGGACGTTGTCAACCGAATAGTCATCGCGCCACGCA	
query		CGTATCACCAACCAGATACTGAATGGGACGTTGTCAACCGAATAGTCATCGCGCCACGCA
template		
template	CTCCCATTACCTCAATCACTGCGCCAGCGAGACAGATATTACCGAGCCAGTATCCGTGA	
query		CTCCCATTACCTCAATCACTGCGCCAGCGAGACAGATATTACCGAGCCAGTATCCGTGA
template		
template	TGATTTTGT	TATAAGCGTAAGACCAGGAGCCACGACACATCCAGTAAGGGTGATTGAATG
query	TGATTTTGT	TATAAGCGTAAGACCAGGAGCCACGACACATCCAGTAAGGGTGATTGAATG
template		
template	CGCCCTGAGACTCCAGCCAGACGATAAACTCCGCCGTCGTCCACGGATTATCATCACAGC	
query		CGCCCTGAGACTCCAGCCAGACGATAAACTCCGCCGTCGTCCACGGATTATCATCACAGC
template		
template	CGATA	GTAAGTAACTGCGCCATCAAACGCTCGCGGGCACCAGATACGACGCACAAACAAATCCT
query	CGATA	GTAAGTAACTGCGCCATCAAACGCTCGCGGGCACCAGATACGACGCACAAACAAATCCT
template		
template	TGTCCGGAATATCGCCGCCATTCTGTGATTTTGT	AATGCATCGCGGCACGACTTATGG
query	TGTCCGGAATATCGCCGCCATTCTGTGATTTTGT	AATGCATCGCGGCACGACTTATGG
template		
template	TTTCTCGAAACCAACGTATTCGATAAGACCGTCAAC	GCTTTTTCCTGACAGCGCCGTCA
query	TTTCTCGAAACCAACGTATTCGATAAGACCGTCAAC	GCTTTTTCCTGACAGCGCCGTCA
template		
template	GGGTTTCGTCCAGCGGCTGCTTGCCCGCCAGTTTATT	CAGTACCGTGGTGGCAAAGTTCG
query	GGGTTTCGTCCAGCGGCTGCTTGCCCGCCAGTTTATT	CAGTACCGTGGTGGCAAAGTTCG
template		
template	GATCATTTCCCAAC	ACGTACAGCCAGTTCTTGCAGGGTGTCAGTGGCTCCAGTACGGAAC
query	GATCATTTCCCAAC	ACGTACAGCCAGTTCTTGCAGGGTGTCAGTGGCTCCAGTACGGAAC
template		
template	CAACCAGCGCGCAATCAGTTTGCGGACAAACTCCGCGTTTGT	TGTCTGAAGCCCTTTAG
query	CAACCAGCGCGCAATCAGTTTGCGGACAAACTCCGCGTTTGT	TGTCTGAAGCCCTTTAG
template		
template	CATCGCCT	AGCGGCGTCGGTGTGGTCGGCGTTCCAGTGAATGCCGGGCTGTCCAGCGGCG
query	CATCGCCT	AGCGGCGTCGGTGTGGTCGGCGTTCCAGTGAATGCCGGGCTGTCCAGCGGCG
template		
template	CTTTGGTCCGTACCTACCCATAACGGTTTTTACC	GCCTTTGGTGTGGCCGCCAGCGCTT
query	CTTTGGTCCGTACCTACCCATAACGGTTTTTACC	GCCTTTGGTGTGGCCGCCAGCGCTT
template		
template	CGCTGTCACTGTCCGTGGCACTGCTTAATTTAACGATACCTTTTTT	CGTCAGGCTTGCAT
query	CGCTGTCACTGTCCGTGGCACTGCTTAATTTAACGATACCTTTTTT	CGTCAGGCTTGCAT
template		
template	CTTCCAGGGAAATCACGTCTGCGATATCCTCGGCCGTTT	CGCGCCTCTTCGGCTTGG
query	CTTCCAGGGAAATCACGTCTGCGATATCCTCGGCCGTTT	CGCGCCTCTTCGGCTTGG
template		
template	TTGCC	GATTCTCCGGCTGCAGCTCTGCTTTGCGCTGCCAGTGATGCG
query	TTGCC	AATTCTCCGGCTGCAGCTCTGCTTTGCGCTGCCAGTGATGCG
template		
template	CGGCGGCGTGGGTGGATGCCT	ACGATGCTGATGACGAGGCGGCTGCCGCCGTTCTGGCTG
query	CGGCGGCGTGGGTGGATGCCT	ACGATGCTGATGACGAGGCGGCTGCCGCCGTTCTGGCTG
template		
template	TGT	CAGCCGACGCCGCGTGGCTGATGCCTCCCCGGCTTTTGTGGTCGCCGTACCTGCGC
query	TGT	CAGCCGACGCCGCGTGGCTGATGCCTCCCCGGCTTTTGTGGTCGCCGTACCTGCGC
template		
template	TGCTCTCCG	CAGATGCTGCGGATGAAGCTGCCGACCAAAATCCCCTTGAAAACAGCCT
query	TGCTCTCCG	CAGATGCTGCGGATGAAGCTGCCGACCAAAATCCCCTTGAAAACAGCCT
template		
template	GTCAGGGCTGGTTTTTTTATGCCTACAATTAAAAAGTTAGCTGATGCCAGAGACGTTATT	
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template		
template	TTGCATGAACTGATTTTGCATGAACTGATTGGACATCTTTCCTGTGCAGTGGT	CACAGTA
query	TTGCATGAACTGATTTTGCATGAACTGATTGGACATCTTTCCTGTGCAGTGGT	CACAGTA
template		
template	AAGTCAATGCAGGCAACTAACGTAACCATGTTTGTACTAAAACAGAAAAAGCGCATCTA	
query	AAGTCAATGCAGGCAACTAACGTAACCATGTTTGTACTAAAACAGAAAAAGCGCATCTA	
template		
template	CACCC	TATACTGGAAAAAATGTTTGCAGTGGCAGGTAATGAGTAAGCAATCTGTCGCAG
query	CACCC	TATACTGGAAAAAATGTTTGCAGTGGCAGGTAATGAGTAAGCAATCTGTCGCAG

template	CAATAATAAAACGTTCTCGGTAAGGTAAACGGCCTACACGCGCTTTGTGCGCTAACAATTAG
query	
template	CCTCCCTGTCGCCATAGGGTCGATAACGATCGGCTATTACAAACACGTTTTGTAGACAAC
query	CCTCCCTGTCGCCATAGGGTCGATAACGATCGGCTATTACAAACACGTTTTGTAGACAAC
template	GTACGGTGATTAATTACTCCTTCAGCCAGCAACTCGCTAATTGTTATTCAACTTCAGAAA
query	GTACGGTGATTAATTACTCCTTCAGCCAGCAACTCGCTAATTGTTATTCAACTTCAGAAA
template	TTATAACTAATTGAAGCACCTACAAAATTATGCCCTGAATTTTATCCGTAAGTGATCCA
query	TTATAACTAATTGAAGCACCTACAAAATTATGCCCTGAATTTTATCCGTAAGTGATCCA
template	TTCGAGAAATGCCGGATATAAGCTTCTGTAGAAAAAGCCCCAAAGTTCCAGCCAAGAAAC
query	TTCGAGAAATGCCGGATATAAGCTTCTGTAGAAAAAGCCCCAAAGTTCCAGCCAAGAAAC
template	GCTTTTTCTCCAAAGGTAAATGCAGAATTGACACGCATATCATCTCGCGACTTAGATTTT
query	GCTTTTTCTCCAAAGGTAAATGCAGAATTGACACGCATATCATCTCGCGACTTAGATTTT
template	ATATAAGCCCCAGACCAATACCGGTATAGATACCAGCGAAATGAACCAGCGCCACATCC
query	ATATAAGCCCCAGACCAATACCGGTATAGATACCAGCGAAATGAACCAGCGCCACATCC
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template	CATATTTAAAAATTTCTACGCCACGCTTACGCTTACAGAAAACGACTGATATAGCATCCAC
query	CATATTTAAAAATTTCTACGCCACGCTTACGCTTACAGAAAACGCTGATATAGCATCCAC
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template	GCACATCCAGGATAAGTTATAAGTGAATGACACTCATTTCTGACCACATTTTCATTTATG
query	GCACATCCAGGATAAGTTATAAGTGAATGACACTCATTTCTGACCACATTTTCATTTATG
template	ATAAGAATATCGTCAGAATCTCTTTATCGCATAAAAAATACCTCTGCTATTGACTTAATAT
query	ATAAGAATATCGTCAGAATCTCTTTATCGCATAAAAAATACCTCTGCTATTGACTTAATAT
template	TTAATTTAACAGATGTCGCGGTTTATTTCGTTCTGCTCAGATGATTTTCATTGACATTAAT
query	TTAATTTAACAGATGTCGCGGTTTATTTCGTTCTGCTCAGATGATTTTCATTGACATTAAT
template	AAAACCATAAATAAATTCAGTTAAAATAATTTGTTAATAATGACAAGCTTTAGACGCTAT
query	AAAACCATAAATAAATTCAGTTAAAATAATTTGTTAATAATGACAAGCTTTAGACGCTAT
template	GACTTTTAATAAGGAATTTCTGCCAGTAAAGATAGTCTGGACTTACGGGTGCAAGGGCG
query	GACTTTTAATAAGGAATTTCTGCCAGTAAAGATAGTCTGGACTTACGGGTGCAAGGGCG
template	CAGCAACATATGCCCACTTCTGTTATGTCACATTGTCCGAAAAGAGCGTCCAGACCAGT
query	CAGCAACATATGCCCACTTCTGTTATGTCACATTGTCCGAAAAGAGCGTCCAGACCAGT
template	ATTCAACTTCAGGGAGTATTCTGTTTTCTCTCACAACGGGTTGTTTTATCCTTCTATCG
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template	TTCAGCTAATTACTCGCCTGTCACAGGTTTTACTACTTACCATGCACATAATTAGGGTAA
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template	AATTTACGCGCTTGACAATGTGGCAAACTGGACGATTTCCGCGTGAAAAACAATAATCA

query	AATTTACGCGCTTGACAATGTGGCAAATCTGGACGATTTTCGCGCTGAAAAACAATATCA
template	TTCTAATAAAACTCAGGAGATACAGCATGCCTGAAGTAACACCTTTTCAGGTGCTATTG
query	TTCTAATAAAACTCAGGAGATACAGCATGCCTGAAGTAACACCTTTTCAGGTGCTATTG
template	TGGACGACCATCCACTTATGCGGCGAGGTATTCGTCAATTACTGGAACGGACCCGGCTT
query	TGGACGACCATCCACTTATGCGGCGAGGTATTCGTCAATTACTGGAACGGACCCGGCTT
template	TTCATGTCGTTGCCGAAGCGGGTGACGGGGCGAGTGCGATCGATCTGGCGAATCGCATTG
query	TTCATGTCGTTGCCGAAGCGGGTGACGGGGCGAGTGCGATCGATCTGGCGAATCGCATTG
template	AGCCCCGATCTGATCCTGCTGGATCTGAATATGAAAGGTCTGAGCGGGTTAGATACCTGA
query	AGCCCCGATCTGATCCTGCTGGATCTGAATATGAAAGGTCTGAGCGGGTTAGATACCTGA
template	ACGCGCTACGCCGGGATGGTGTGACGGCGCAAATTATTATTCTTACCGTCTCGGATTCCG
query	ACGCGCTACGCCGGGATGGTGTGACGGCGCAAATTATTATTCTTACCGTCTCGGATTCCG
template	CCAGCGACATCTACGCGTGATCGACGCCGGCGCCGACGGTTATCTGCTCAAAGATAGCG
query	CCAGCGACATCTACGCGTGATCGACGCCGGCGCCGACGGTTATCTGCTCAAAGATAGCG
template	ATCCGGAAGTGCTGCTGGAGGCCATTTCGCAAAGCGCTAACGGCGGTAAAGTCTTTAGCG
query	ATCCGGAAGTGCTGCTGGAGGCCATTTCGCAAAGCGCTAACGGCGGTAAAGTCTTTAGCG
template	ATCGGGTCAATGAATATCTGCGTGAGCGCGAACGGTTTGGCGCGCAGGAAGATCCCTTTA
query	ATCGGGTCAATGAATATCTGCGTGAGCGCGAACGGTTTGGCGCGCAGGAAGATCCCTTTA
template	GTATCCTGACCGAACGAGAGTTAGATGTCTTGATGAGCTGGCGCAGGGGCTTTCTAACA
query	GTATCCTGACCGAACGAGAGTTAGATGTCTTGATGAGCTGGCGCAGGGGCTTTCTAACA
template	AACAAGATTGCGTCAGTACTGAATATTTCTGAGCAGACGGTTAAGGTGCACATTTCGTAATC
query	AACAAGATTGCGTCAGTACTGAATATTTCTGAGCAGACGGTTAAGGTGCACATTTCGTAATC
template	TACTTCGCAAGCTAAACGTGCGCTCAGCGTCGCGGCGACCATTTCTATTTTACAAACAC
query	TACTTCGCAAGCTAAACGTGCGCTCAGCGTCGCGGCGACCATTTCTATTTTACAAACAC
template	GCGGAATGCAGTAACAAGCCAGGCCCGATGGCGCCACGCCACTGGGCCGTCAAGGCTT
query	GCGGAATGCAGTAACAAGCCAGGCCCGATGGCGCCACGCCACTGGGCCGTCAAGGCTT
template	TTTCTCCTGCGCCAGCCGGATACGCGCTCTATCACCGCCCGCCGGGCGTCACCCGCCGG
query	TTTCTCCTGCGCCAGCCGGATACGCGCTCTATCACCGCCCGCCGGGCGTCACCCGCCGG
template	CAGCAGCTTCAGCATCATCTCCCAGGCCGCCACCGCCTCGCCAAAGCGCTGCTGCTCAA
query	CAGTAAGCTTCAGCATCATCTCCCAGGCCGCCACCGCCTCGCCAAAGCGCTGCTGCTCAA
template	GGCGTTAAACGCATACAGGCTTAACACCCGGATATCCGTGTGGTCGCGGCTCACCAGCTG
query	GGCGTTAAACGCATACAGGCTTAACACCCGGATATCCGTGTGGTCGCGGCTCACCAGCTG
template	ACGCAGCAGCTCCCGCCGCGACGGTTATCCTCCGGGTCGGACGAGCGGTGAGCGCCTC
query	ACGCAGCAGCTCCCGCCGCGACGGTTATCCTCCGGGTCGGACGAGCGGTGAGCGCCTC
template	CGCGTAGCCAGCGCCGCATCGCGGTTTTTCGGGTCCAGGTGGTAGCGGTTTCGATAGCG
query	CGCGTAGCCAGCGCCGCATCGCGGTTTTTCGGGTCCAGGTGGTAGCGGTTTCGATAGCG
template	CCCGGTGGCGGTACCGGCATTACCCAGTACCATAACCGGTGCGCCCCAGCATGAGCCAGCC
query	CCCGGTGGCGGTACCGGCATTACCCAGTACCATAACCGGTGCGCCCCAGCATGAGCCAGCC
template	CTCAACATTGCCGGCATCATTTGAGGCGGGTGCGCAGCCCCAGCGCCAGCCGCGCCAT
query	CTCAACATTGCCGGCATCATTTGAGGCGGGTGCGCAGCCCCAGCGCCAGCCGCGCCAT
template	CTCCTCCTCATTCAGCGGCTGCGCCTGCGGGTCCAGCGCCCGCGCCAGCAGTCCCGGCGT
query	CTCCTCCTCATTCAGCGGCTGCGCCTGCGGGTCCAGCGCCCGCGCCAGCAGTCCCGGCGT
template	CTGCGCGGTTGCTGCTGCCAGGCCCTCACCTGCGGATAGTGCCGGTCAAGGGCTAGCT
query	CTGCGCGGTTGCTGCTGCCAGGCCCTCACCTGCGGATAGTGCCGGTCAAGGGCTAGCT
template	GCCGGCGCCGACCGCCAGCGCAATGACGGCCCCGGCACGTAAGCCCCACCCGGCGCG
query	GATGGCGCCGACGACAGCGCATAAACACGCCCGGCACGTAAGCCCCACCCGGCGCG
template	CGCGCC-GCAAACCGGGGGTCCGCCGGC-AGCGGC-TCCCGGCGCAGGCGCACCCGCCG
query	CGGTCCGCCG-CAGGAATGGC-GTCGGCCAG-GACGTCCTGTCTGATACGCACCCGCCG

template	GCGCGTGC	GGGCGACGATTATCCACCCGCCGCCACGATGG	GGCCAGCGGCAGCACCCA
query	GCGCGTGC	GGGCGACGATTATCCACCCGCCGCCACGATGG	TGGCCAGCGGCAGCACCCA
template	CAGCAGCACCGTCAGCGGGGT	CAGCGCGGGTCTGAGGTGAC	GAAGTTGCCGTAGCGCGC
query	CAGCAGCACCGTCAGCGGGGT	CAGCGCGGGTCTGAGGTGAC	GAAGTTGCCGTAGCGCGC
template	CACCATATAATCGATGATTTCCTGGCGGCTCTTCCCCTCCTGCATCAGGTCATACACCT		
query	CACCATGTAATCGATGATTTCCTGGCGGCTCTTCCCCTCCTGCATCAGGTCATACACCT		
template	GCGACGCATGTCGGTGGCTATCATCGCGTTCGAGTCCGCAATGCTGTTGTTCTGGCATT		
query	GCGGCGCATGTCGGTGGCTATCATCGCGTTCGAGTCCGCAATGCTGTTGTTCTGGCATT		
template	CGGGCAGCGCAGCTGCTCCGTGAGCTGGCGGAAGTCTGCTCCTGCGCTTCATCTTTAAA		
query	CGGGCAGCGCAGCTGCTCCGTGAGCTGGCGGAAGTCTGCTCCTGCGCTTCATCTTTAAA		
template	CGGCATCACGTCGGTGGT	GCCCGCGCTGACCCGGCGATAACCAGC	GCCAGCATCAGCAT
query	CGGCATCACGTCGGTGGT	GCCCGCGCTGACCCGGCGATAACCAGC	ACCAGCATCAGCAT
template	CACCATGCCCGGTAAACAGTCTCATTGCGCGCCTCCCGGCTGTATCTGTCCCACAGCGGT		
query	CACCATGCCCGGTAAACAGTCTCATTGCGCGCCTCCCGGCTGTATCTGTCCCACAGCGGT		
template	TTAGTTCACTTTCCCATACCCGGGCATTCAAATCGCCCGCATGGCGGTAGCGGATAATC		
query	TTAGTTCACTTTCCCATACCCGGGCATTCAAATCGCCCGCATGGCGGTAGCGGATAATC		
template	CCGTTGCCGTCGATGAGGAAGGTTTCCGGCGCGCGGTACACGCCAGGTCCAGCCCCAGC		
query	CCCTTGCCGTCGATGAGGAAGGTTTCCGGCGCGCGGTACACGCCAGGTCCAGCCCCAGC		
template	ATCCCGTCGCTGTCCGATAAACTCAGCGCATACGGGTTGCCAGTTCTTTTAACCAGGCC		
query	ATCCCGTCGCTGTCCGATAAACTCAGCGCATACGGGTTGCCAGTTCTTTTAACCAGGCC		
template	ACCGCCTTCGCCCGGTCTGCTCTTATAGTTTCAGCCC	ACCACCCGGATACCTGCGCAGAA	
query	ACCGCCTTCGCCCGGTCTGCTCTTATAGTTTCAGCCC	ACCACCCGGATACCTGCGCAGAA	
template	AGCTGGTTCAGGTA	CTGATGCTCGGCGCGGCAGGTCGGGCACCAAGGTGGCCAGACGTTA	
query	AGCTGGTTCAGGTA	CTGATGCTCGGCGCGGCAGGTCGGGCACCAAGGTGGCCAGACGTTA	
template	AGCAGCACCGGTTTCCCCTGCGTCAGCACCTCCGCCTGATAGTA	CTGACCCGGCGTCTCC	
query	AGCAGCACCGGTTTCCCCTGCGTCAGCACCTCCGCCTGATAGTA	CTGACCCGGCGTCTCC	
template	AGCGATTCCAGGCGGAAC	CCGGCACCGGCTTCCGGTCAG	GCCGATTTCGAGATTCTGTC
query	AGCGATTCCAGGCGGAAC	CCGGCACCGGCTTCCGGTCAG	TGCCGATTTCGAGATTCTGTC
template	GGGTCATCCCCCTGCGCGTTGCGCGCCAGCTGCCACAGCAGCGCCGCGGAATCAGCAGA		
query	GGGTCATCCCCCTGCGCGTTGCGCGCCAGCTGCCACAGCAGCGCCGCGGAATCAGCAGA		
template	AAAAATCAGCAGCGGTAATAACAGTACGTTGCGTTTCATCCGGCCTCCGGCAATGGTTTAC		
query	AAAAATCAGCAGCGGTAATAACAGTACGTTGCGTTTCATCCGGCCTCCGGCAATGGTTTAC		
template	GGCGGCGGTAGCGCGGGTCCGCCAGGCACAGCAGCCGCCAGCGCCATCAGCAGTCCCC		
query	GGCGGCGGTAGCGCGGGTCCGCCAGGCACAGCAGCCGCCAGCGCCATCAGCAGTCCCC		
template	CGGCCCATATCCAGCGGACAAACGGTTTGTA	GTACAGGCGCACGGCCACGCGCGGTTGT	
query	CGGCCCATATCCAGCGGACAAACGGTTTGTA	GTACAGGCGCACGGCCACGCGCGGTTGT	
template	CCAGCTCCTCCCCGAGCGCGGCTACAGGTCGCGGGTCAGCCGCGCTCAATCGCCGCCT		
query	CCAGCTCCTCCCCGAGCGCGGCTACAGGTCGCGGGTCAGCCGCGCTCAATCGCCGCCT		
template	CGGTCATACCATCCGGCTGGTGTGTAGAGCCGTTTCTCCGCGTGACGACCGCCTCCG		
query	CGGTCATACCATCCGGCTGGTGTGTAGAGCCGTTTCTCCGCGTGACGACCGCCTCCG		
template	GCTCGCCGTGGCGGTCACCCCGATGAGGGCCACCCCGCGCGGTAGTTGGG	CCGGTGA	
query	GCTCGCCGTGGCGGTCACCCCGATGAGGGCCACCCCGCGCGGTAGTTGGG	CCGGTGA	
template	TGTCCCGCACCTCCCGGAAGGTGAAGCGGTAGTCGTGAATGGTCACGCTGTCGCCCGCC		
query	TGTCCCGCACCTCCCGGAAGGTGAAGCGGTAGTCGTGAATGGTCACGCTGTCGCCCGCC		
template	GCATCCGCACGTCACGCTCCACGCTGTAATTCTGGCTGAAGGCGATGCCGGTAATCGTCA		
query	GCATCCGCACGTCACGCTCCACGCTGTAATTCTGGCTGAAGGCGATGCCGGTAATCGTCA		

template	CCGCCAGCCCCGAGGTGCGCCGCCACCATTCCCCAGTAGCTGAGAGAGGTTTTCTGTGCCGC
query	CCGCCAGCCCCGAGGTGCGCCGCCACCATTCCCCAGTAGCTGAGAGAGGTTTTCTGTGCCGC
template	GGGACACGCGCTGTACGGCTTCGGCCACCGCCAGCACCGAATCCAGCAGGCCATCGCCA
query	GGGACACGCGCTGTACGGCTTCGGCCACCGCCAGCACCGAATCCAGCAGGCCATCGCCA
template	TCCCCACCGCCGTATGGCGATGATTTTATCTTCAGCAGCCA
query	TCCCCACCGCCGTATGGCGATGATTTTATCTTCAGCAGCCA
template	GCACCAGGGTGGTGACAA
query	GCACCAGGGTGGAGAC
template	GGCCCCAGCGCACCAGCGGCCACCCCCAGCAGAGGGCAAAGGGGACCATCAGCCAGG
query	GGCCCCAGCGCACCAGCGGCCACCCCCAGCAGCAGGGCAAAGGGGACCATCAGCCAGG
template	TGAACATGGTGTTAAAGAACGGCTCCCCACCGAAATGCTGCCCAGCCCCAGCTGTTTGT
query	TGAACATGGTGTTAAAGAACGGCTCCCCACCGAAATGCTGCCCAGCCCCAGCTGTTTGT
template	GCACCAGCGGCAGCAGGGTGCCCAGCAGCACCACCAGCATGGCGGCCATCAGCAGGACGT
query	GCACCAGCGGCAGCAGGGTGCCCAGCAGCACCACCAGCATGGCGGCCATCAGCAGGACGT
template	TGTTGCCGAGCAGCAGCGACTCGCGCACCACAGCGCGTTGTTTACCCGCGAACGCACCC
query	TGTTGCCGAGCAGCAGCGACTCGCGCACCACAGCGCGTTGTTTACCCGCGAACGCACCC
template	TGTGCCCGCGCACGGCGAACAGCAGCAGCGAGCCGCCGGTGACCAGCACCATAAAGGCCA
query	TGTGCCCGCGCACGGCGAACAGCAGCAGCGAGCCGCCGGTGACCAGCACCATAAAGGCCA
template	GGATAAACAT
query	GGATAAACAT
template	AGCGCACCAGGAAGGTGCCCAGCAGGCACAGCGAGAAGGCGCAGATGGACAGCAGCAGCG
query	AGCGCACCAGGAAGGTGCCCAGCAGGCACAGCGAGAAGGCGCAGATGGACAGCAGCAGCG
template	TCCACGCCTTAAAGCCGCGCGCTGTTCT
query	TCCACGCCTTAAAGCCGCGCGCTGTTCT
template	CCGCCAGCCACGGCATAAAGGAGGCGTTCTCCACCGGGTCCCAGAACCACCAGCCGCCCC
query	CCGCCAGCCACGGCATAAAGGAGGCGTTCTCCACCGGGTCCCAGAACCACCAGCCGCCCC
template	AGCCCAGCTCGTAGTAGGCCACGCCGAGCCGAGCACGATGCCCAGCGTCAGGAACACCC
query	AGCCCAGCTCGTAGTAGGCCACGCCGAGCCGAGCACGATGCCCAGCGTCAGGAACACCC
template	ACGCCGCCAGCGTCCACGGGCGGGCAAACGGGTGAACGCGCTGTCCAGACGCCCGCTCA
query	ACGCCGCCAGCGTCCACGGGCGGGCAAACGGGTGAACGCGCTGTCCAGACGCCCGCTCA
template	GCAGCGCGGGATGGCGAAGGCGAAGGCCACCGAGAAGCCGACATAGCCCATGTACAGCA
query	GCAGCGCGGGATGGCGAAGGCGAAGGCCACCGAGAAGCCGACATAGCCCATGTACAGCA
template	GCGGCGGGTGAAAAATCAGCCCCGGGTCTGCAGCAGCGGGTTCAGGTCGCGCCCCCTCA
query	GCGGCGGGTGAAAAATCAGCCCCGGGTCTGCAGCAGCGGGTTCAGGTCGCGCCCCCTCA
template	CCGGAAGGCCGGCAGCGTGCGGGCGAACGGGCCGGAGGTGAACAGGATGAACGCCAGAA
query	CCGGAAGGCCGGCAGCGTGCGGGCGAACGGGCCGGAGGTGAACAGGATGAACGCCAGAA
template	AACGGGCGCAGACCATCCCCATCACCGCCAGCACCCGGGCGACGATATCCGCGGCACCT
query	AACGGGCGCAGACCATCCCCATCACCGCCAGCACCCGGGCGACGATATCCGCGGCACCT
template	GCCGGCTGAACACCGCCACCGCAGGGTCCAGCCGCTCATCAGCAGCACCCACAGCAGCA
query	GCCGGCTGAACACCGCCACCGCAGGGTCCAGCCGCTCATCAGCAGCACCCACAGCAGCA
template	GCGAGCCCTCGTGCGCCCCCCAGGTGGCGGCCACCG
query	GCGAGCCCTCGTGCGCCCCCCAGGTGGCGGCCACCG
template	TCGAGTTGCCGGCGACATAGGCCACGGTGAAGTCGTTAACACAAAGGCGTGACCCAGCA
query	TCGAGTTGCCGGCGACATAGGCCACGGTGAAGTCGTTAACACAAAGGCGTGACCCAGCA
template	CGAAAAACGCGCCCGCCACGCAGATAAACAGCAGCCAGGCGAACACCCCGGCCGACGCCA
query	CGAAAAACGCGCCCGCCACGCAGATAAACAGCAGCCAGGCGAACACCCCGGCCGACGCCA
template	TCATCCGCGCGT

query	TCATCCGCGCGTCAACCGCGCGCCAGCGCCACAGCGGGTAAACGGACAGCAGCAGCGCCA
template	CGCCGAGCGCCAGGCACAGCAGCGCGTGGCCGTATTAGGCATCATGATGAGGTGTCTT
query	CGCCGAGCGCCAGGCACAGCAGCGCGTGGCCGTATTAGGCATCATGATGAGGTGTCTT
template	ATCAACGCGTTGCGGGCGGCGGTGGTTTTCTGCATCGCCTTTTCCACTTCCGGCGGGT
query	ATCAACGCGTTGCGGGCGGCGGTGGTTTTCTGCATCGCCTTTTCCACTTCCGGCGGGT
template	GTAGTTCTCGTCATGCTTGCCAGCACCTCGTGCGCCAGGACGTGGTTGCCCTTCTCCAG
query	GTAGTTCTCGTCATGCTTGCCAGCACCTCGTGCGCCAGGACGTGGTTGCCCTTCTCCAG
template	GGTGCCCTGCACCACCACCCCTGCCCTCGCGGAACAGGTCCGGCAGTATCCCTCATA
query	GGTGCCCTGCACCACCACCCCTGCCCTCGCGGAACAGGTCCGGCAGTATCCCTCATA
template	GCTCACCGTCACCGACCCCTTCGGCGTCGTAGAGGCTGAAGTTACCTTCAGCGAGTCCGG
query	GCTCACCGTCACCGACCCCTTCGGCGTCGTAGAGACTGAAGTTACCTTCAGCGAGTCCGG
template	GTGCGCCTGACGCTGCCGGGCATCACCATCCCGCCGACGCGCAGGCGCTGGCCCACCGC
query	GTGCGCCTGACGCTGCCGGGCATCACCATCCCGCCGACGCGCAGGCGCTGGCCCACCGC
template	CGGCAGCTGCTGCGTCTCGCGTTGCCGTAGAGAAATTCGCCGGGGTATAGAACAGGTC
query	CGGCAGCTGCTGCGTCTCGCGTTGCCGTAGAGAAATTCGCCGGGGTATAGAACAGGTC
template	GATATTCGCGCGCAGCGGTACAGGACCAGGCGGTGGTCAGCGCCAGGCCGCCAGCAC
query	GATATTCGCGCGCAGCGGTACAGGACCAGGCGGTGGTCAGCGCCAGGCCGCCAGCAC
template	CGCGCAGACCACCCATAGCCGGTTTTTACGTCGCAGGTTAC
query	CGCGCAGACCACCCATAGCCGGTTTTTACGTCGCAGGTTAC

### ***SPI-13\_AY956832***

template	AAATATCGGGCATATTGCCCTCCTGTAAACCTCACTATGCCCTCGCTGGTTTCATTCTT
query	AAATATCGGGCATATTGCCCTCCTGTAAACCTCACTATGCCCTCGCTGGTTTCATTCTT
template	CCAATATATGATGGTGCCATTCTTAATTGCTTTTGGAGATGAGGATGGAAGTGCGCCATA
query	CCAATATATGATGGTGCCATTCTTAATTGCTTTTGGAGATGAGGATGGAAGTGCGCCATA
template	TTGCTATTTTCTCGCCGTGCTGAAGAGCGGCATTTACGCGGGCTGCGACAAAATTAG
query	TTGCTATTTTCTCGCCGTGCTGAAGAGCGGCATTTACGCGGGCTGCGACAAAATTAG
template	GCATAGGTCAGCCGCCGCTAAGCCAACAGATTAAGGATCTGGAAAGAGAGCTGGGAGCGC
query	GCATAGGTCAGCCGCCGCTAAGCCAACAGATTAAGGATCTGGAAAGAGAGCTGGGAGCGC
template	AGCTATTCGGAGAGTGCCTCATGGCGCGGAATTAACCGAGGCTGGAAAAGCATTTTATG
query	AGCTATTCGGAGAGTGCCTCATGGCGCGGAATTAACCGAGGCTGGAAAAGCATTTTATG
template	ATGTTGTTAAAGGGATGCCTGCTACCGCGACAAGAGCC
query	ATGTTGTTAAAGGGATGCCTGCTACCGCGACAAGAGCC

### ***SPI-13\_AY956833***

template	CCTGCAAATCGTGGATAGTCTTATCATGATGGCTGGTTCTGATACTCGCCTTATTGGCAT
query	CCTGCAAATCGTGGATAGTCTTATCATGATGGCTGGTTCTGATACTCGCCTTATTGGCAT
template	TATTGAGTCAGTTGTTGGGCTTAATGCCGTAGAGTCTATTGCGGACGCCACCCCAGACT
query	TATTGAGTCAGTTGTTGGGCTTAATGCCGTAGAGTCTATTGCGGACGCCACCCCAGACT
template	CTGCGGGTTGATGTTTGGCGCCGAGATATGGCGGTGACATTGGCGCCACACCCGCCTG
query	CTGCGGGTTGATGTTTGGCGCCGAGATATGGCGGTGACATTGGCGCCACACCCGCCTG
template	GGAGCCTCTTGCGCTGGCGCGGGCCAGAATAGTGGCTGCCTGCGCTATGAAAGGGCTTCT
query	GGAGCCTCTTGCGCTGGCGCGGGCCAGAATAGTGGCTGCCTGCGCTATGAAAGGGCTTCT
template	TGCAATAGATGCTCCCTCTTTTGATATAGGCGATTTTTAGGTCTGAAAGAGGAAACGCT
query	TGCAATAGATGCTCCCTCTTTTGATATAGGCGATTTTTAGGTCTGAAAGAGGAAACGCT

template	G C A G G C G C T C A G T T T T G G T T T T T C T G C A A A A T C G G C T A T T C A C C C G C T C A G A T T A G T G T
query	G C A G G C G C T C A G T T T T G G T T T T T C T G C A A A A T C G G C T A T T C A C C C G C T A G A T T A G T G T
template	A A T C A A C G C C G C A T T T A C T C C T A C A A C G G C A G A A T T A A T C A T G
query	A A T C A A C G C C G C A T T T A C T C C T A C A A C G G C A G A A T T A A T C A T G

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template	A G A T G G G G G T C G G C G C A T T A C C G G A G C T C A T C T G T A A T G C G C T C A A G G A A C A T A A T G A T C
query	A G A T G G G G G T C G G C G C A T T A C C G G A G C T C A T C T G T A A T G C G C T C A A G G A A C A T A A T G A T C
template	T G G G G T C C A T A C A G A G G C G T G A A T C C G G G T T G G T A A G T T T G A T T C A A C A A G G C G T C G
query	T G G G G T C C A T A C A G A G G C G T G A A T C C G G G T T G G T A A G T T T G A T T C A A C A A G G C G T C G
template	T T A C C A A T C A G C G T A A A A T A T C G A C C G G G A A T G T C T G T A T T T A C T T T T G C T A T G G G A C
query	T T A C C A A T C A G C G T A A A A T A T C G A C C G G G A A T G T C T G T A T T T A C T T T T G C T A T G G G A C
template	A A A A G G A T A T G T A T G A C T A T C T A A C G A C A A C C C C T C T T T T T T A G T C G G C C T G T C G A T T
query	A A A A G G A T A T G T A T G A C T A T C T A A C G A C A A C C C C T C T T T T T T A G T C G G C C T G T C G A T T
template	A T G T T A A C G A T C C G G G G A T C A T T G C G C A A A A T G A G A A T G T T G T C T C C A T T A A C G C T A C C T
query	A T G T T A A C G A T C C G G G G A T C A T T G C G C A A A A T G A G A A T G T T G T C T C C A T T A A C G C T A C C T
template	T A C A A A T C G A T C T C A C T G G T G C C T G T A A C T C T G A A T A T T T G
query	T A C A A A T C G A T C T C A C T G G T G C C T G T A A C T C T G A A T A T T T G

**SPI-14\_AY956835**

template	G C T T T A G T T T G T G T A A A C A A G T T G T C G A T C A T A A C G T T A G A A T T A G A A T A A A G C G A G A T
query	G C T T T A G T T T G T G T A A A C A A G T T G T C G A T C A T A A C G T T A G A A T T A G A A T A A A G C G A G A T
template	C A T T C T G A T G T T G A T A T T T C T G A T T C A A A A C T C A G T A T C A A T C C A T T T G A T G A A A T T G C A
query	C A T T C T G A T G T T G A T A T T T C T G A T T C A A A A C T C A G T A T C A A T C C A T T T G A T G A A A T T G C A
template	G T T G A A G A A G C A G T A C G T T T A A A A G A A C G G G G A T T A A T C A G T G A G G T T G T T G A T G T C T
query	G T T G A A G A A G C A G T A C G T T T A A A A G A A C G G G G A T T A A T C A G T G A G G T T G T T G A T G T C T
template	A T A G G A A A C A C A G G T G T A G G G G A T G T A T T G C G T A C A G C A C T G G C A G C A G G G G C A G A C A G G
query	A T A G G A A A C A C A G G T G T A G G G G A T G T A T T G C G T A C A G C A C T G G C A G C A G G G G C A G A C A G G
template	G C A A T A C A C A T A T T A A C A A A A A C T C T C T T A C A C C A C T A A T T G T G G C C A A A A C T A T C A C C
query	G C A A T A C A C A T A T T A A C A A A A A C T C T C T T A C A C C A C T A A T T G T G G C C A A A A C T A T C A C C
template	G C T A T T A C C C G A A T G A A A A A C C G A T A T T A T A T T A T T A G G C A A G C A A G C T A T T G A C G A T
query	G C T A T T A C C C G A A T G A A A A A C C G A T A T T A T A T T A T T A G G C A A G C A A G C T A T T G A C G A T
template	G A T T G T A A T C A G G T A G G C C A A A T G C T G G C A G C A T T A C T C G A T C T T C C C C A A G C C A C T A A T
query	G A T T G T A A T C A G G T A G G C C A A A T G C T G G C A G C A T T A C T C G A T C T T C C C C A A G C C A C T A A T
template	G T T A G T G A A A T T A C T A T T T C T G A T A A T T C A T T A A C T G C T G T T C G T G A G G T T G A T G G A G G A
query	G T T A G T G A A A T T A C T A T T T C T G A T A A T T C A T T A A C T G C T G T T C G T G A G G T T G A T G G A G G A
template	T T A G A A A C G T T A A A T T T A T C C
query	T T A G A A A C G T T A A A T T T A T C C

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template	C G T T A T C C T C T G C T G G T G A A A T A T T T A A A C A C C A C G C C A G C C T A T T G T G A A T C A G A T G G
query	C G T T A T C C T C T G C T G G T G A A A C A T T T A A A C A C C A C G C C A G C C T A T T G T G A A T C A G A T G G
template	A A A T G T T A C G T A G C G A T A T G C A G G A G C A T G T T A A A G G C A T C A A A G G A C A T G T C A G A A T A T
query	A A A T G T T A C G T A G C G A T A T G C A G G A G C A T G T T A A A G G C A T C A A A G G A C A T G T C A G A A T A T
template	T T T C C A G T A T A A C T G C T A T T G C A G A G T A T C T C C C C C A T T G T T G A G C C A T T T C C T T A C A C

query	TTTCCAGTATAAAGTCTATTGCAGAGTATCTCCCCCATTTGTTAAGCCATTTTCCTTACAC
template	TATATAACGATGTGAATATTGATCTCAGGGAGTATCCAAGTCCGGAAATTGTACGTTCTG
query	TATATAACGATGTGAATATTGATCTCAGGGAGTATCCAAGTCCGGAAATTGTACGTTCTG
template	TTATTGAGGGGAAAACTGATCTCGGAATTGTTGCTGGTAATTACAACAGATAATCTTG
query	TTATTGAGGGGAAAACTGATCTCGGAATTGTTGCTGGTAATTACAACAGATAATCTTG
template	AAATACTGCCGTTCCGTACTGATAGGCTAGTGCTTATCACCGCGACAGACCATCCCTTTG
query	AAATACTGCCGTTCCGTACTGATAGGCTAGTGCTTATCACCGCGACAGACCATCCCTTTG
template	CTGACAGAAAAAGCGTGACCTTTTCATGAATTAATTCAATATGAACAAATCAGCCTGCCTG
query	CTGACAGAAAAAGCGTGACCTTTTCATGAATTAATTCAATATGAACAAATCAGCCTGCCTG
template	AAGGGACAGGAATGTTTGAAT
query	AAGGGACAGGAATGTTTGAAT

***SPI-2\_AY956826***

template	GAAAAGCAATTACGCGGCAAGCTTACCGTACTTGATCAGCAGCAACAGGCGATT
query	GAAAAGCAATTACGCGGCAAGCTTACCGTACTTGATCAGCAGCAACAGGCGATT
template	GAACAGCAGATTTGCCAGACGCGCGCTTAGCAGTGCTACCAGACTGAAAGAATTAAT
query	GAACAGCAGATTTGCCAGACGCGCGCTTAGCAGTGCTACCAGACTGAAAGAATTAAT
template	GGCTGGCAAGGTACGTTATCTTGTCATTTATTGTTGGATAAGAAACAACAAATGGCCGGG
query	GGCTGGCAAGGTACGTTATCTTGTCATTTATTGTTGGATAAGAAACAACAAATGGCCGGG
template	TTATTTACTCAGGCGCAGAGCTTTTTGACGCAACGGCAGCAGTTAGAGAATCAGTATCAG
query	TTATTTACTCAGGCGCAGAGCTTTTTGACGCAACGGCAGCAGTTAGAGAATCAGTATCAG
template	CAGCTTGCTCCCCGGCGAAGCGAATTACAGAAGAATTTTAATGCGCTTATGAAAAAGAAA
query	CAGCTTGCTCCCCGGCGAAGCGAATTACAGAAGAATTTTAATGCGCTTATGAAAAAGAAA
template	GAAAAAATTACTATGGTATTAAGCGATGCGTATTACCAAAGTTGAGGGGAAGCTTGGGGT
query	GAAAAAATTACTATGGTATTAAGCGATGCGTATTACCAAAGTTGAGGGGAAGCTTGGGGT
template	GCCATGCCAGTCTTATCAGGATGATAACGAGGCGGAGGCGGAACGTATGGACTTTGAACA
query	GCCATGCCAGTCTTATCAGGATGATAACGAGGCGGAGGCGGAACGTATGGACTTTGAACA
template	ACTCATGCACCAGGCATTACCCATTGGTGAGAATAATCCTCCTGCAGCATTGAATAAGAA
query	ACTCATGCACCAGGCATTACCCATTGGTGAGAATAATCCTCCTGCAGCATTGAATAAGAA
template	CGTGGTTTTACGCAACGTTATCGTGTTAGTGGCGGTTATCTTGACGGTGTAGAGTGTGA
query	CGTGGTTTTACGCAACGTTATCGTGTTAGTGGCGGTTATCTTGACGGTGTAGAGTGTGA
template	AGTCTGTGAATCAGGGGGGCTAATTCAGTTAAGAATCAATGTCCTCATCATGAAATTTA
query	AGTCTGTGAATCAGGGGGGCTAATTCAGTTAAGAATCAATGTCCTCATCATGAAATTTA
template	CCGTTTCGATGAAAGCGCTAAAGCAGTGGCTGGAGTCT
query	CCGTTTCGATGAAAGCGCTAAAGCAGTGGCTGGAGTCT

***SPI-2\_AY956827***

template	AGGATATGCTTAGTGGAATCATTGCTAAAACTGAAGTTATTAGCGACGATGTTTCGACGG
query	AGGATATGCTTAGTGGAATCATTGCTAAAACTGAAGTTATTAGCGACGATGTTTCGACGG
template	TTGCTGCTGGAATCATGTTTGCGGGCGTTAACCATAGCCTGATTTCCAGGTACATGCG
query	TTGCTGCTGGAATCATGTTTGCGGGCGTTAACCATAGCCTGATTTCCAGGTACATGCG
template	ATGTTACCAGCGCTAACGGTTATTGTTCCGGATAAAAAATTACAGTTGGTATGCTGGCA
query	ATGTTACCAGCGCTAACGGTTATTGTTCCGGATAAAAAATTACAGTTGGTATGCTGGCA
template	TTATTGTTGGCGGGTTTAAATGAGCCGCTAAAAGCCGCGAAAAATTTATCGGATATAGAT
query	TTATTGTTGGCGGGTTTAAATGAGCCGCTAAAAGCCGCGAAAAATTTATCGGATATAGAT



template query	TTGCCAGAGGCTATGGCGCTGCGTCTGTTATTTCTGCACCAAATGAGGGGTTTGAAAAT
template query	TGAATATTTCTGATATGAGCGTAGTGCCTGTAAGCACTCAATCTTATGTAAAGTCTCTG
template query	CAGAACCGAGCCAGGAGCAAATTAATTTTTTTGAACAATTGCTGAAAGATGAAGCATCCA
template query	CCAGTAACGCCAGTGCTTTATTACCGCAGGTTATGTTGACCAGACAAATGGATTATATGC
template query	AGTTAACGGTAGGCGTCGATTATCTTGCCAGAATATCAGGCGCAGCATCGCAAGCGCTTA
template query	ATAAGCTGGATAACATGGCATGAAGGTTTCATCGTATAGTATTTCTTACTGTCCTTACGTT
template query	CTTTCTTACGGCATGTGATGTGGATCTTTATCGCTCATTGCC

**SPI-2\_AY956828**

template query	GAGTGAGGCTGTTCACTTATAGCGTACTGTCAATCGGAGATGGTTTATGTGGGCAAAT
template query	TCCATCGCTGCTGATTTCCTTAGCGCGGGAATTATTGTACCCCGTGCCGGGTGAGAA
template query	ACGCCAGAACCTGGCGACAGAGTTGAGTTCTCAAATTGCCAGACAACTCAGTCGCTCAT
template query	ATTAACCGCTGTGGTTTTAATGCTCCTCGCTTAAATCCTGGCTTTCCTTTATCACTCT
template query	CGCTTCTTTTCAGCGTTGTTAGCATTGCCAATTATCCTCATTGCGCGCAAAAAGTCTGT
template query	GGTTTCCGCAAATGGCGTCGAAGCACCGGAAAAAGATAGTATGGTTCCCGGCATGTCC
template query	TCTAATCTTACGTCTTAGCCCCACGTTACATTCTGG

**SPI-2\_AY956829**

template query	AGTTGGCGTGCCCATATTGCATTGGCTGGCACCTGGATGATGCTTAAAGAATACACGACG
template query	GCCATTAATTTCTATGGACATGCCTTGATGCTGGATGCCAGCCATCCAGAACCGGTTTAC
template query	CAAACGGGCGTCTGTCTAAAATGATGGGGGAACCCGGGTTGGCGAGAGAGGCTTTTCAA
template query	ACCGCAATCAAGATGAGTTATGCGGATGCCTCATGGAGTGAGATTCGCCAGAATGCGCAA
template query	ATAATGGTTGATACTCTTATTGCTTAAATAACAGAACGAAATATGAAAATTCATATTCCG
template query	TCAGCGGCAAGTAATATAGTCGATGGTAATAGTCCTCCTTCCGATATACAAGCGAAGGAG
template	GTATCGTTTCTCCCCCTGAAATTCCAGCGCCTGGTACCCCGCAGCCCTGTGCTGCTT

query GTATCGTTTCCTCCCCCTGAAATTCAGCGCCTGGACACCCCGCAGCCCTGTGCTGCTT

template ACGCC  
query ACGCC

### SPI-2\_AY956830

template ACATGTCCCTCTCTATTTTCATACCGACAGTATCCGTTTACGGCAAATTTTGTTAATTT  
query ACATGTCCCTCTCTATTTTCATACCGACAGTATCCGTTTACGGCAAATTTTGTTAATTT

template ACTCGGGAAATGCGGTAAAAATTTACCGAAACCGAGGGATACGTCTGACGGTCAAGCGTCA  
query ACTCGGGAAACGCGGTAAAAATTTACCGAAACCGAGGGATACGTCTGACGGTCAAGCGTCA

template TGAGGAACAATTAATATTTCTGGTTAGCGATAGCGGTAAAGGGATTGAAATACAGCAGCA  
query TGAGGAACAATTAATATTTCTGGTTAGCGATAGCGGTAAAGGGATTGAAATACAGCAGCA

template GTCTCAAATCTTTACTGCTTTTATCAAGCAGACACAAATTCGCAAGGTACAGGAATTGG  
query GTCTCAAATCTTTACTGCTTTTATCAAGCAGACACAAATTCGCAAGGTACAGGAATTGG

template ACTGACTATTGCGTCAAGCCTGGCTAAAATGATGGGCGGTAATCTGACACTAAAAAGTGT  
query ACTGACTATTGCGTCAAGCCTGGCTAAAATGATGGGCGGTAATCTGACACTAAAAAGTGT

template CCCCGGGGTTGGAACCTGTGTCTCGCTAGTATTACCCTTACAAGAATACCAGCCGCCTCA  
query CCCCGGGGTTGGAACCTGTGTCTCGCTAGTATTACCCTTACAAGAATACCAGCCGCCTCA

template ACCAATTAAAGGGACGCTGTCAGCGCCGTTCTGCCTGCATCGGCAACTGGCTTGCTGGGG  
query ACCAATTAAAGGGACGCTGTCAGCGCCGTTCTGCCTGCATCGGCAACTGGCTTGCTGGGG

template AATACGCGGTGAACCACCCACCAGCAAATGCGCTTCTCAACGCAGAGCTTTTGTATTT  
query AATACGCGGTGAACCACCCACCAGCAAATGCGCTTCTCAACGCAGAGCTTTTGTATTT

template CTCCGAAAAACTCTACGACCTGGCGCAACAGTTAATATTGTGTACACCAAATATGCCAGT  
query CTCCGAAAAACTCTACGACCTGGCGCAACAGTTAATATTGTGTACACCAAATATGCCAGT

template AATAAAT  
query AATAAAT

### SPI-2\_JN673272

template ATGCTGGCAGTTTTAAAAGGCATTCCATTAATT CAGGATATCAGGGCCGAAGGTAATAGC  
query ATGCTGGCAGTTTTAAAAGGCATTCCATTAATT CAGGATATCAGGGCCGAAGGTAATAGC

template CGATCCTGGATAATGACTATTGATGGGCATCCTGCCAGAGGAGAAATTTCTCAGAAGCA  
query CGATCCTGGATAATGACTATTGATGGGCATCCTGCCAGAGGAGAAATTTCTCAGAAGCA

template TTTTCTATTTCTTTGTTCTTAAATGACCTGGAAAGCTTACCTAAGCCTTGCTTGCCTAT  
query TTTTCTATTTCTTTGTTCTTAAATGACCTGGAAAGCTTACCTAAGCCTTGCTTGCCTAT

template GTGACACTACTGCTTGACGACACCCGGACGTCCATGATTATGCTATACAGCTCACAGCG  
query GTGACACTACTGCTTGACGACACCCGGACGTCCATGATTATGCTATACAGCTCACAGCG

template GATGGGGGATGGTTAAACGGTTATTATACCACAAGTAGTAGCTCTGAGCTTATTGCTATT  
query GATGGGGGATGGTTAAACGGTTATTATACCACAAGTAGTAGCTCTGAGCTTATTGCTATT

template GAGATAGAAAAACACCTGGCTTTAACTTGCATTTTAAAAAATGTAATACGCAATCACCAT  
query GAGATAGAAAAACACCTGGCTTTAACTTGCATTTTAAAAAATGTAATACGCAATCACCAT

template AAACTTTATTCGGGTGGGGTATAA  
query AAACTTTATTCGGGTGGGGTATAA

### SPI-2\_Z95891

template TTACAAAACCAAGTGACATTGGCTACCTTAGCTCGCTACATCAGTATTGCCGCAGAATACC  
query TTACAAAACCAAGTGACATTGGCTACCTTAGCTCGCTACATCAGTATTGCCGCAGAATACC

template	AACTTTACGAAATATAGAGCTACAGGAGCAGGATCCGAGTCGCTGCTCAGCGCTACTGG
query	AACTTTACGAAATATAGAGCTACAGGAGCAGGATCCGAGTCGCTGCTCAGCGCTACTGG
template	CGACAGATGATATGGTCATTAATAGCAAGATTTTCCAATCACTGGACCTCTTGCTGGCTG
query	CGACAGATGATATGGTCATTAATAGCAAGATTTTCCAATCACTGGACCTCTTGCTGGCTG
template	ATATTGAAAAATGCCGTATCGGCTGGAGAAAAATCGATCAGTTAATTCACACATTAAAAG
query	ATATTGAAAAATGCCGTATCGGCTGGAGAAAAATCGATCAGTTAATTCACACATTAAAAG
template	GCTGTTTAGGTCAAATAGGGCAGACTGAATTGGTATGCTATGTCATAGACATTGAGAATC
query	GCTGTTTAGGTCAAATAGGGCAGACTGAATTGGTATGCTATGTCATAGACATTGAGAATC
template	GCGTAAAAATGGGAAAAATCATCGCGCTGGAGGAACTAACCGACTTACGCCAGAAAATAC
query	GCGTAAAAATGGGAAAAATCATCGCGCTGGAGGAACTAACCGACTTACGCCAGAAAATAC
template	GTATGATCTTCAAAAACACACCATTACTTAATATTATCTTAATTTTCGCGAGGGCAGCA
query	GTATGATCTTCAAAAACACACCATTACTTAATATTATCTTAATTTTCGCGAGGGCAGCA
template	AAATGAAAGAATATAAGATCTTATTAGTAGACGATCATGAAATCATCATTAAACGGCATT
query	AAATGAAAGAATATAAGATCTTATTAGTAGACGATCATGAAATCATCATTAAACGGCATT
template	TGAATGCCTTATTACCCTGGCCTCATTTTAAAAATTGTAGAGCATGTTAAAAATGGTCTTG
query	TGAATGCCTTATTACCCTGGCCTCATTTTAAAAATTGTAGAGCATGTTAAAAATGGTCTTG
template	AGGTTTATAATGCCTGTTGTGCATACGAGCCTGACATACTTATCCTTGATCTTAGTCTAC
query	AGGTTTATAATGCCTGTTGTGCATACGAGCCTGACATACTTATCCTTGATCTTAGTCTAC
template	CTGGCATCAATGGCCTGGATATCATTCTCAATTACATCAGCGTTGGCCAGCAATGAATA
query	CTGGCATCAATGGCCTGGATATCATTCTCAATTACATCAGCGTTGGCCAGCAATGAATA
template	TTCTGGTTTACACAGCATACCAACAAGAGTATATGACCATTAAAACTTTAGCCGCAAGTG
query	TTCTGGTTTACACAGCATACCAACAAGAGTATATGACCATTAAAACTTTAGCCGCAAGTG
template	CTAATGGCTATGTTTTAAAAAGCAGTAGTCAGCAAGTTCTGTTAGCGGCATTGCAAACAG
query	CTAATGGCTATGTTTTAAAAAGCAGTAGTCAGCAAGTTCTGTTAGCGGCATTGCAAACAG
template	TAGCAGTAAACAAGCGTTACATTGACCCAACGTTGAATCGGGAAGCTATCCTGGCTGAAT
query	TAGCAGTAAACAAGCGTTACATTGACCCAACGTTGAATCGGGAAGCTATCCTGGCTGAAT
template	TAAACGCTGACACGACCAATCATCAACTGCTTACTTTGCGCGAGCGTCAGGTTCTTAAAC
query	TAAACGCTGACACGACCAATCATCAACTGCTTACTTTGCGCGAGCGTCAGGTTCTTAAAC
template	TTATTGACGAGGGGTATACCAATCATGGGATCAGCGAAAAGCTACATATCAGTATAAAAA
query	TTATTGACGAGGGGTATACCAATCATGGGATCAGCGAAAAGCTACATATCAGTATAAAAA
template	CCGTCGAAACACACCGGATGAATATGATGAGAAAGCTACAGGTTCATAAAGTGACAGAGT
query	CCGTCGAAACACACCGGATGAATATGATGAGAAAGCTACAGGTTCATAAAGTGACAGAGT
template	TACTTAACTGTGCCGAAGAATGAGGTTAATAGAGTATTAACCAAGGGGCGTCCGATGGTA
query	TACTTAACTGTGCCGAAGAATGAGGTTAATAGAGTATTAACCAAGGGGCGTCCGATGGTA
template	TTAAGCATTGGTCATATTTTGATGAGCCTTACGCCACGCAGTATTGCTCATCATCGACAA
query	TTAAGCATTGGTCATATTTTGATGAGCCTTACGCCACGCAGTATTGCTCATCATCGACAA
template	AATCCATACGGATGCCCTGGTATGCCGCACCATTATCACTACCTTAGTCTTCATTTGAT
query	AATCCATACGGATGCCCTGGTATGCCGCACCATTATCACTACCTTAGTCTTCATTTGAT
template	CATGATATAGTAGAATCCCCTTATTTAACGGGCTTTACCATGTCGTATTCTA
query	CATGATATAGTAGAATCCCCTTATTTAACGGGCTTTACCATGTCGTATTCTA

***SPI-3\_AJ000509***

template	ATGGGTTCACCAGAAAAGGGATGCTAAACGTCCTGATTGCCGCCGATTGTGGGGGAGT
query	ATGGGTTCACCAGAAAAGGGATGCTAAACGTCCTGATTGCCGCCGATTGTGGGGGAGT
template	TCAGGCGTTTGCGCGCAGTACATCATGGAGCAAAGCCGTATGTCGTACAGTTCTTGACG
query	TCAGGCGTTTGCGCGCAGTACATCATGGAGCAAAGCCGTATGTCGTACAGTTCTTGACG

template	ATGATACGTTTGGTTATTTCGCCGGGCTGATACTGGTGACCTTCTCCTTTATGCACGGCGAT
query	ATGATACGTTTGGTTATTTCGCCGGGCTGATACTGGTGACCTTCTCCTTTATGCACGGCGAT
template	AAGATATTTTCAATTCTTAAAAACGCAAAAGATGCCCTGAGTCTGCTGATTTTCTCCGTG
query	AAGATATTTTCAATTCTTAAAAACGCAAAAGATGCCCTGAGTCTGCTGATTTTCTCCGTG
template	GTGGGCGCGCTCACCGTTCAAGTAACCTTCCTGCTCACGATTGAAAAATCCAATGCCGCC
query	GTGGGCGCGCTCACCGTTCAAGTAACCTTCCTGCTCACGATTGAAAAATCCAATGCCGCC
template	ACCGCGACAGTGCTGCAATTTTATCGCCGACCATTATTGTAGCGTGGTTGCATTAGCG
query	ACCGCGACAGTGCTGCAATTTTATCGCCGACCATTATTGTAGCGTGGTTGCATTAGCG
template	CGAAGAACACGACCAGGCATTCTGGTCTTAACCGCCATTCTTACATCGCTTATCGGCACC
query	CGAAGAACACGACCAGGCATTCTGGTCTTAACCGCCATTCTTACATCGCTTATCGGCACC
template	TTTTTACTGGTGACTCACGGCAATCCAACATCGCTGTCGATCTCTTCAGCCGCGCTGTT
query	TTTTTACTGGTGACTCACGGCAATCCAACATCGCTGTCGATCTCTTCAGCCGCGCTGTT
template	TGGGGTATCGCCTCCGCATTTGCCGCCGCTTTTATACGACCTGGCCTTCCAGGCTAATC
query	TGGGGTATCGCCTCCGCATTTGCCGCCGCTTTTATACGACCTGGCCTTCCAGGCTAATC
template	GCCCAATACGGCACACTGCCAGTGGTCGGCTGGAGTATGTCCTTTGGCGGCCTTATTCTG
query	GCCCAATACGGCACACTGCCAGTGGTCGGCTGGAGTATGTCCTTTGGCGGCCTTATTCTG
template	CTGCCCTTCTACGCTAAAGAAGGAACGCACCTTTCGGTGAGCGGCAGCCTGATTCTGGCC
query	CTGCCCTTCTACGCTAAAGAAGGAACGCACCTTTCGGTGAGCGGCAGCCTGATTCTGGCC
template	TTTTTCTACCTGGTGGTGATCGGTACATCGCTGACGTTACGCTGTATTTGAAAGGCGCG
query	TTTTTCTACCTGGTGGTGATCGGTACATCGCTGACGTTACGCTGTATTTGAAAGGCGCG
template	CAACTGATTGGTGGCCCC
query	CAACTGATTGGTGGCCCC

***SPI-3\_Y13864***

template	AGCGGGAATGCCGAAAATATCGGTATAGAAGAACATCATATATAACATGACGTTATCAAA
query	AGCGGGAATGCCGAAAATATCGGTATAGAAGAACATCATATATAACATGACGTTATCAAA
template	GATGATGTGGCTGGCGGCATCGCCATACCATAGCCAATCTTCTCCTTAACGGAGAGAAT
query	GATGATGTGGCTGGCGGCATCGCCATACCATAGCCAATCTTCTCCTTAACGGAGAGAAT
template	TTCACTTTTCATTACGCATCCTTAACGCTCACAACGCTCACTAATACCGGTTACAGTTT
query	TTCACTTTTCATTACGCATCCTTAACGCTCACAACGCTCACTAATACCGGTTACAGTTT
template	TGTAACCTTCCCTGCGAGCGTGAATATTCCGTATTTGGTTATCAAATTACGATTCTTG
query	TGTAACCTTCCCTGCGAGCGTGAATATTCCGTATTTGGTTATCAAATTACGATTCTTG
template	TTTTCTGTGATCAGGGTAGCGTCAAAAAGTGTGATGAAATGTAACATAATGGATTTATGG
query	TTTTCTGTGATCAGGGTAGCGTCAAAAAGTGTGATGAAATGTAACATAATGGATTTATGG
template	GGGTTTATATGAAACCGATCATGGCAGAAGGAAAGGGAAGTTAAAAAGCACGGGAGGGG
query	GGGTTTATATGAAACCGATCATGGCAGAAGGAAAGGGAAGTTAAAAAGCACGGGAGGGG
template	ATGTGAAACGCCAGGAAGTAGCTATAATGCGCGCGCCTCCATGTAGCAATCGAGGCGCG
query	ATGTGAAACGCCAGGAAGTAGCTATAATGCGCGCGCCTCCATGTAGCAATCGAGGCGCG
template	GAAATCGTCGTCTCCGGTGAGGCGGCTGGACTTCAAATCCAGTTGGGGCCGCCAGCGGT
query	GAAATCGTCGTCTCCGGTGAGGCGGCTGGACTTCAAATCCAGTTGGGGCCGCCAGCGGT
template	CCCGGGCAGGTTTGACTCCTGTGATCTTCGCCAACATCCTTCTCTCATGCCACCATTC
query	CCCGGGCAGGTTTGACTCCTGTGATCTTCGCCAACATCCTTCTCTCATGCCACCATTC
template	GTCTCTATTTTCGGGACAAAGTATTTGCTTATTATTAAGACTAGTCTTGATATAATAC
query	GTCTCTATTTTCGGGACAAAGTATTTGCTTATTATTAAGACTAGTCTTGATATAATAC
template	GAAAGGAAAGGTGGATAGAGAAAGTGAATATTATTTTATTAATCACCATTACCGATTG
query	GAAAGGAAAGGTGGATAGAGAAAGTGAATATTATTTTATTAATCACCATTACCGATTG

template	CTAAAACCGAACGTCCATTTATTGTGGGATATCGTCTGCAAAGAAGGGATAAAAAGTACGC
query	CTAAAACCGAACGTCCATTTATTGTGGGATATCGTCTGCAAAGAAGGGATAAAAAGTACGC
template	CAGGACTAACGCGGGCGGGACTTAACTAATCACCAAACGAAC TTGTGGGT CATACTTACA
query	CAGGACTAACGCGGGCGGGACTTAACTAATCACCAAACGAAC TTGTGGGT CATACTTACA
template	GGCTCATCCTTTCTCAAAAGAGATACGCTTACCAGGCCAAAATTATGAGATCAACGTATA
query	GGCTCATCCTTTCTCAAAAGAGATACGCTTACCAGGCCAAAATTATGAGATCAACGTATA
template	GAGCCATCCGGATAAAGATACATGCCTCCCTCCAGATACACGGGTCTCCTTCTTCTACC
query	GAGCCATCCGGATAAAGATACATGCCTCCCTCCAGATACACGGGTCTCCTTCTTCTACC
template	GCTAAATTATGATATAGCGATTGCATTTTCATCATCTGCAC TTTCTTCCGGTTGGTTTTCA
query	GCTAAATTATGATATAGCGATTGCATTTTCATCATCTGCAC TTTCTTCCGGTTGGTTTTCA
template	ACTCGATAATAGGTATCTACATCATAGTTCTGTTTACGGAGATCGTCGTCGCTGTATACG
query	ACTCGATAATAGGTATCTACATCATAGTTCTGTTTACGGAGATCGTCGTCGCTGTATACG
template	CCAAGCCGTTTTTTTAAGCCTGTTATATTAAATATCCATTTTAACCCATCTTTAATATAA
query	CCAAGCCGTTTTTTTAAGCCTGTTATATTAAATATCCATTTTAACCCATCTTTAATATAA
template	TAGGCATCACCATAAGCATTTTCATCGGGGCATTCTTTATAGCCCATCCGCAATGCAACA
query	TAGGCATCACCATAAGCATTTTCATCGGGGCATTCTTTATAGCCCATCCGCAATGCAACA
template	TCACAGCCATGCTTACCAACATATTTATAACTCATATCCCCCCAATATGTTGCTTCAAT
query	TCACAGCCATGCTTACCAACATATTTATAACTCATATCCCCCCAATATGTTGCTTCAAT
template	ATCCCAGATAAAAATTCATAACGAAAACCTATCCTGATAACCTATGCCACATGAAGGATAC
query	ATCCCAGATAAAAATTCATAACGAAAACCTATCCTGATAACCTATGCCACATGAAGGATAC
template	AATTTAAACTAAAGTACGCGTTATATTATCCCTTAAGTCCGTATCAAGTATGCGTATTCT
query	AATTTAAACTAAAGTACGCGTTATATTATCCCTTAAGTCCGTATCAAGTATGCGTATTCT
template	GTAGTAGGTAGTAATATGTTCTAATTTATTAATGTGAGTTATATATGAAGAGATTATTTA
query	GTAGTAGGTAGTAATATGTTCTAATTTATTAATGTGAGTTATATATGAAGAGATTATTTA
template	CAGCGATGATTATCGCTTTTATTACCGTCACGGCATCATCCAGTGCCTTGCTGCCCCAA
query	CAGCGATGATTATCGCTTTTATTACCGTCACGGCATCATCCAGTGCCTTGCTGCCCCAA
template	AGGGTCAACATCCACATGGGGGTACAGGCTCACATCATAAGGGTGGATGGTGTTCATACG
query	AGGGTCAACATCCACATGGGGGTACAGGCTCACATCATAAGGGTGGATGGTGTTCATACG
template	AGCAGTAACGTCGC
query	AGCAGTAACGTCGC

***SPI-4\_AJ576316***

template	TATTGTCTTTGTATCCCTTTCAAAAAAGAGAAGCGCATATCTTACGGAAAAATGTCGCTT
query	TATTGTCTTTGTATCCCTTTCAAAAAAGAGAAGCGCATATCTTACGGAAAAATGTCGCTT
template	ATCGCCTCTGGCCGACTCGCCTCGGCACATCATTATCCAGCCGAAGTTCATAAATGTACT
query	ATCGCCTCTGGCCGACTCGCCTCGGCACATCATTATCCAGCCGAAGTTCATAAATGTACT
template	GCAATAACCCGGATTGTCTTAAATATGAAAGAGAAATCTCATCTGCAAAATATATAATT
query	GCAATAACCCGGATTGTCTTAAATATGAAAGAGAAATCTCATCTGCAAAATATATAATT
template	ATAGCCATTTTTTGACAACAAAAAGATATTATAAAATAACGGTAGAGAATGGTCGGTATT
query	ATAGCCATTTTTTGACAACAAAAAGATATTATAAAATAACGGTAGAGAATGGTCGGTATT
template	ATCAATGGTTAATTAAATGTTTGCTTTAGCTTGATGAGCTCAAATATGATATGTGTAT
query	ATCAATGGTTAATTAAATGTTTGCTTTAGCTTGATGAGCTCAAATATGATATGTGTAT
template	CTTGCTTTATTTTTAATTGCTGAAGATAAAAATTGTTACTTATAGCTGGCTTTATATAAAA
query	CTTGCTTTATTTTTAATTGCTGAAGATAAAAATTGTTACTTATAGCTGGCTTTATATAAAA
template	AATGGTTTTATTTGTGTATTTTTTACACAATTCTGATTTTTTACTCCCCACTTATTATA
query	AATGGTTTTATTTGTGTATTTTTTACACAATTCTGATTTTTTACTCCCCACTTATTATA

template	TTTTCAATGATTTAAGTTATATTGAAGTCCATATGACCTATGTTTTAATGTGAAAAATT
query	TTTTCAATGATTTAAGTTATATTGAAGTCCATATGACCTATGTTTTAATGTGAAAAATT
template	AATTTTATCCTCTGGAGGCAAATTTATTAATACGTATGGTTATAACGCGTATTA AAAAG
query	AATTTTATCCTCTGGAGGCAAATTTATTAATACGTATGGTTATAACGCGTATTA AAAAG
template	AAATATGTCCTTAAAAATGATTAGAGTTTCAATGATTAGCTAACAAATCTATTTATCGGC
query	AAATATGTCCTTAAAAATGATTAGAGTTTCAATGATTAGCTAACAAATCTATTTATCGGC
template	GGGTGGTTTTAATTTGCTGATGACTATTTTTATTATGAGTTGAGAGCTTATGCGATAC
query	GGGTGGTTTTAATTTGCTGATGACTATTTTTATTATGAGTTGAGAGCTTATGCGATAC
template	CTATTATTGGGGAGGATATAGTTAGTGCAATAATTGATGTCTACCTAATTA AAAAATGA
query	CTATTATTGGGGAGGATATAGTTAGTGCAATAATTGATGTCTACCTAATTA AAAAATGA
template	AGAGTGTTTTTAATTAAGCACTCATCTTTGTTGTGGGCGCATAAAAATGGCGTCGTTGT
query	AGAGTGTTTTTAATTAAGCACTCATCTTTGTTGTGGGCGCATAAAAATGGCGTCGTTGT
template	TTTTATTTTCTGATTACGAGATGAAGAAACTGAAATCTATAAAGCGTATTGGTAGCA
query	TTTTATTTTCTGATTACGAGATGAAGAAACTGAAATCTATAAAGCGTATTGGTAGCA
template	GGAAGCCAAGGGCGGTAGCGTTCACCTTCTGAATAAGTTGAGCATCCTTTATCCTTTCTA
query	GGAAGCCAAGGGCGGTAGCGTTCACCTTCTGAATAAGTTGAGCATCCTTTATCCTTTCTA
template	ATCCACAAAAACATTTTATTCACAATGTAATATCAGGAGACAACATGGAAGACGAAAGTA
query	ATCCACAAAAACATTTTATTCACAATGTAATATCAGGAGACAACATGGAAGACGAAAGTA
template	ATCCGTGGCCTAGTTTGTGATACATTCTCTACGGTATTGTGCATTTTATATTTCTTA
query	ATCCGTGGCCTAGTTTGTGATACATTCTCTACGGTATTGTGCATTTTATATTTCTTA
template	TGTTGGTGTGTCACCTTAATAATATGATTATTATGTATGACAACCAATTAAAGTTTATA
query	TGTTGGTGTGTCACCTTAATAATATGATTATTATGTATGACAACCAATTAAAGTTTATA
template	AAGCAAATATAGAGAATAAGACTAAATCTACTGCTCAAAATAGCGGAGCCAATGACGATT
query	AAGCAAATATAGAGAATAAGACTAAATCTACTGCTCAAAATAGCGGAGCCAATGACGATT
template	CAAATCCTAATGAAATAGTTAATAAGGAAGTGAATACTCAAGATGTGTCGGACGGAATGA
query	CAAATCCTAATGAAATAGTTAATAAGGAAGTGAATACTCAAGATGTGTCGGACGGAATGA
template	CTACAATGTCAGGTAAGGAGGTTGGAGTATACGATATCGCCGATGGTCAGAAAACTGATA
query	CTACAATGTCAGGTAAGGAGGTTGGAGTATACGATATCGCCGATGGTCAGAAAACTGATA
template	TAACGTCTACAAAAAATGAGCTTGTATTACGTATCATGGCAGGCTGAGAAGCTTTTCAG
query	TAACGTCTACAAAAAATGAGCTTGTATTACGTATCATGGCAGGCTGAGAAGCTTTTCAG
template	AAGAGGACACTTATAAAATAAAGGCTTGGTTAGAAGACAAAATCAATAGTAATTTATTGA
query	AAGAGGACACTTATAAAATAAAGGCTTGGTTAGAAGACAAAATCAATAGTAATTTATTGA
template	TAGAAATGGTTATTCTCAGGCAGACATCTCTTCTCTGACTCTCTACGACTGGGATATG
query	TAGAAATGGTTATTCTCAGGCAGACATCTCTTCTCTGACTCTCTACGACTGGGATATG
template	AACGGGGAATTATTTTGATGAAAGAGATTAAGAAAAATATATCCTGATGTAGTTATTGACA
query	AACGGGGAATTATTTTGATGAAAGAGATTAAGAAAAATATATCCTGATGTAGTTATTGACA
template	TGAGTGTTAACTCCGCAGCATCAAGTACAACGAGTAAAGCTATTATCACGACTATTAATA
query	TGAGTGTTAACTCCGCAGCATCAAGTACAACGAGTAAAGCTATTATCACGACTATTAATA
template	AAAAGGTGTCAGAGTGAAATATATAAATCATTACCGCTATTTGTTTGCTGTTTTTTCCT
query	AAAAGGTGTCAGAGTGAAATATATAAATCATTACCGCTATTTGTTTGCTGTTTTTTCCT
template	TGCCATACTCCCTTTTTTGCTTTATCTTTCCCGGTATAAGAGAGTATGTTTTGATAA
query	TGCCATACTCCCTTTTTTGCTTTATCTTTCCCGGTATAAGAGAGTATGTTTTGATAA
template	CTTCATGTTTTCTGCAATTTACAATGGAGTCATTATTGCCATTTATATTACAGGTTCTTT
query	CTTCATGTTTTCTGCAATTTACAATGGAGTCATTATTGCCATTTATATTACAGGTTCTTT
template	GTGTGCATTATTCACTATTCTTAAAAATATTTACGCAAAAGACATATTAATAGCTCAGGA
query	GTGTGCATTATTCACTATTCTTAAAAATATTTACGCAAAAGACATATTAATAGCTCAGGA

template query	CGCCAGTAGAAAAATAGCATTCTTTCTAACCTCAATCAGGTTTTGTTTGCCGGGGAGTC
template query	CAAAACAGTGTGATTTCAATTTACTGATGGAATTAGATGACAATGTGTCTACCGCCCGTAA CAAAACAGTGTGATTTCAATTTACTGATGGAATTAGATGACAATGTGTCTACCGCCCGTAA
template query	TCAACGATTGTCATTATTATGAGCTGTAGCAATGTGTCGACGCTTGTGGCCTGTTGGG TCAACGATTGTCATTATTATGAGCTGTAGCAATGTGTCGACGCTTGTGGCCTGTTGGG
template query	GACGTTTGCGGGTCTGTCTATTACGATTGGTTCAATCGGGAACCTATTGAGCTCGCCATC GACGTTTGCGGGTCTGTCTATTACGATTGGTTCAATCGGGAACCTATTGAGCTCGCCATC
template query	AGATGTTGGCGGTGATAATGCAAGTAATACACTCAATATGATCGTGACAATGGTAGCGTC AGATGTTGGCGGTGATAATGCAAGTAATACACTCAATATGATCGTGACAATGGTAGCGTC
template query	GCTTTCTGAACCATTGAAAGGGATGAATACCGCATTGTATCTTCTATCTATGGTGTGT GCTTTCTGAACCATTGAAAGGGATGAATACCGCATTGTATCTTCTATCTATGGTGTGT
template query	TTGCGCCATACTCCTGACCTCACAAAGTGTGTTTGTTCGAGCTCCTATTCCCTTGTTTC TTGCGCCATACTCCTGACCTCACAAAGTGTGTTTGTTCGAGCTCCTATTCCCTTGTTTC
template query	TACGGAAATCAAAAAATAAAAATCATAAGCAACAGAGCCAATAATAACAGCGAAGCCT TACGGAAATCAAAAAATAAAAATCATAAGCAACAGAGCCAATAATAACAGCGAAGCCT
template query	GCGGGTTGAATCAGAGACGCTTGTAAGATTTAAAGAGTTGTTTAAAGCGTTTTTTGATAA GCGGGTTGAATCAGAGACGCTTGTAAGATTTAAAGAGTTGTTTAAAGCGTTTTTTGATAA
template query	CTACCTGACAGTTGAAAACCTACGGACGCAGGATGAAGAAAAGAAACGAGAGATGCTATC CTACCTGACAGTTGAAAACCTACGGACGCAGGATGAAGAAAAGAAACGAGAGATGCTATC
template query	AGATAGCTTTGTCACTTTGCAAAACCGACTATTGGATAACTCAGCAAACTGGAACAAAT AGATAGCTTTGTCACTTTGCAAAACCGACTATTGGATAACTCAGCAAACTGGAACAAAT
template query	TTCTACGCTGATTGATGGTTATCTGGTAAGCAGTAACGAAAATCTCAAAAAATTATCTGA TTCTACGCTGATTGATGGTTATCTGGTAAGCAGTAACGAAAATCTCAAAAAATTATCTGA
template query	CGGTGTAATAACAATTACCTCTCGTTTATCTGAAGGTAATATCCTGCTTGCTGATAATAA CGGTGTAATAACAATTACCTCTCGTTTATCTGAAGGTAATATCCTGCTTGCTGATAATAA
template query	TGCACGACTGGAGGCAATGAGTACAATACAAAATATTATAGATAAAAAGAATGATTCAAT TGCACGACTGGAGGCAATGAGTACAATACAAAATATTATAGATAAAAAGAATGATTCAAT
template query	AATGACATCAGTTGATAAATGTTATCAGGAATCTCTTTCACATGGTAAGACCATAAACGA AATGACATCAGTTGATAAATGTTATCAGGAATCTCTTTCACATGGTAAGACCATAAACGA
template query	TATTGCCGCTGGCAGTGCCGATATTTCTCATACTCTCGATGGGCTGAGAAAAGAAATGGA TATTGCCGCTGGCAGTGCCGATATTTCTCATACTCTCGATGGGCTGAGAAAAGAAATGGA
template query	TGAGGATATGAATAATGTTCAATTTAGCGCTATCCGATCTATCGGCTACTGATAAAAAGAT TGAGGATATGAATAATGTTCAATTTAGCGCTATCCGATCTATCGGCTACTGATAAAAAGAT
template query	TATTGCCAATACTAAAGAGATTAGTGCTGAAATGGTAGCTACCGTGATACCTATATGCC TATTGCCAATACTAAAGAGATTAGTGCTGAAATGGTAGCTACCGTGATACCTATATGCC
template query	ATTAATGGAAAAATAACATCTATGCATCAGGAAATAGTAAAGCAACGTTTGTAAACAA ATTAATGGAAAAATAACATCTATGCATCAGGAAATAGTAAAGCAACGTTTGTAAACAA
template query	GGAGGAAAAAATGAAGATTAAGATGTTTTTCTGACGACTGCTTTTATTACACAAAGCA GGAGGAAAAAATGAAGATTAAGATGTTTTTCTGACGACTGCTTTTATTACACAAAGCA
template query	CATACGCCAGCGAGCTTCCGGTCATTCTCTAAGAGATTTAGTTAATGCCGCATTAACGC CATACGCCAGCGAGCTTCCGGTCATTCTCTAAGAGATTTAGTTAATGCCGCATTAACGC
template query	ATCAGCCCTCTGTTGCTGTTTCATATTATGAGACTGAAAAGAAAAACAGTGACTTAGATC ATCAGCCCTCTGTTGCTGTTTCATATTATGAGACTGAAAAGAAAAACAGTGACTTAGATC
template query	TTTCACGGGCAGCACTTTATCCTACCCTGGATCTAACATCTGGCCTTAATAATAACAGGA TTTCACGGGCAGCACTTTATCCTACCCTGGATCTAACATCTGGCCTTAATAATAACAGGA
template	AAGAGTCATCAGGTACCGAGAGGAACGTTGAAAAAAGGTGTCTTTATCATACCGAATAA

query	AAGAGTCATCAGGTACCGAGAGGAACGTTGAAAAATAAGGTGTCCTTTATCATACCCGAATAA
template	CGGATTTTGGAGTGAGGGGGGCTAATATCAGGAAATCTGAATATGAAAGAGATAATAGTA
query	CGGATTTTGGAGTGAGGGGGGCTAATATCAGGAAATCTGAATATGAAAGAGATAATAGTA
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query	AAACTGACTATGAAAAACAAAGAATATAGTGTCTCAGGAGGTTGTGACAACCTATTACA
template	ACATCAGTAAATATCGTGAAATGATTGATGGCGTAAATCTGGAGAAAGAGTTTATAAAA
query	ACATCAGTAAATATCGTGAAATGATTGATGGCGTAAATCTGGAGAAAGAGTTTATAAAA
template	AGATGCTGGAAACTTTTTCGTTGCTGGTATCTTCCGGTGTAGCTATGCAATCTGATATGC
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template	GTAAAGTACAAGTATCTATCGATGCATTAAATACCAGAAGCATTATGTATCAGTCGATGT
query	GTAAAGTACAAGTATCTATCGATGCATTAAATACCAGAAGCATTATGTATCAGTCGATGT
template	TGGATGATGAAATGTATAAAATGCAGAATATGACTGGTCTGAATTTATCGCCAGTTCAGA
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template	TGTTAACGAAATATCTTTCATTCTTGATAAAGAAAAATGAGAGTGGGTTGATTACCCTGGA
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query	TGGCACCCGTTCTTTAAGCAATAAAGAGGTAAAAGCGAATATTGAATTAGTGCATAGTCA
template	GATAAGAGCTAAAGAGTTAAAAAAAACCTCTCTTGATTCTGAGATTAGCGGATTACAAGA
query	GATAAGAGCTAAAGAGTTAAAAAAAACCTCTCTTGATTCTGAGATTAGCGGATTACAAGA
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query	CCGGAATGTGAAGCAGTCCGCGCCGTTGACGGTGACAGTAGACACGCATATCGCCATTG
template	ACCGTATTGAACTGGTTAACGACAGCGGTATCCCGGCGATAATCTGACCAATGAAGCGC
query	ACCGTATTGAACTGGTTAACGACAGCGGTATCCCGGCGATAATCTGACCAATGAAGCGC
template	GCCCCGACTTTTCAGGTGACAGTACCGGCGGATGTTAACGGTGAAGACTGAGTATTGATG
query	GCCCCGACTTTTCAGGTGACAGTACCGGCGGATGTTAACGGTGAAGACTGAGTATTGATG
template	GCGGCAAAACGTGGTTTGACGCCACGCAGAGCGCGACGTCGGGCGTCTGGGATTACACCT
query	GCGGCAAAACGTGGTTTGACGCCACGCAGAGCGCGACGTCGGGCGTCTGGGATTACACCT
template	GGCTGACGAATGTGGCTAACGGCCCTCACACCTGATGGTGAAGCGTCCGACAAGGCGG
query	GGCTGACGAATGTGGCTAACGGCCCTCACACCTGATGGTGAAGCGTCCGACAAGGCGG
template	GAAACAAAACGACGCAGAAACTGGACTTCACCATCGATACCATTCTGTCAGAACCACGA
query	GAAACAAAACGACGCAGAAACTGGACTTCACCATCGATACCATTCTGTCAGAACCACGA
template	TTACCCTGGACAGCGCGGATGATAGCGCCGCTGGCGATAACATCACCACGTTAAGATGC
query	TTACCCTGGACAGCGCGGATGATAGCGCCGCTGGCGATAACATCACCACGTTAAGATGC
template	CAGGCTTTACCCTCGGTAATATCGACGCCGACGTGACCAAAGTGGTGGTGACGGTGGCGC
query	CAGGCTTTACCCTCGGTAATATCGACGCCGACGTGACCAAAGTGGTGGTGACGGTGGCGC
template	ATGATGGTAAGAACCAACAGATAGAGTTGATTAAGAACGGCGGTGTGTGGCGCTTACGC
query	ATGATGGTAAGAACCAACAGATAGAGTTGATTAAGAACGGCGGTGTGTGGCGCTTACGC
template	CGGGCGCAGCCTGGACCGATGGCGACTATACGTTGACGGTAAAGGTAGAAGATAAGGCGG
query	CGGGCGCAGCCTGGACCGATGGCGACTATACGTTGACGGTAAAGGTAGAAGATAAGGCGG
template	GTAATACAAATTATTCTGCGCCGCTGACGGTGACTATCGATACGCAAACGTCTATTGATC
query	GTAATACAAATTATTCTGCGCCGCTGACGGTGACTATCGATACGCAAACGTCTATTGATC
template	GCATTGAGCTTCTTAATGACACGGGTATTGTGCGGGATAACCTGACCAATGAAGCACGTC
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template	CACAGTTTCATATTACGGTACCGACGGACGTGAACCTGTGCAACTGAGTCTTGATGGCG
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template	CAGATCTGGTCGAAAATACGTATACCCTGACAGTGAAAGCAACCGATGTTGCAGGCAACA
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template	ATATTCGCCACTCAGCGCCGTTGACGGTCACCATCGATACGCAAATCACCATTGACCATA

query	ATATTGCGCACTCAGCGCGGTTGACGGTCACCATTGACCAATCACCATTGACCAAT
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template	CGCAGTTCCGCGTGACGGTACCGGGGACGTTAACGAAGTCAGTCTGAGCATTGACGGTG
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query	GCAAGACGTGGTTCAACGCGACCCAGAGCGCGACGCCGGGTGTCTGGGATTATACCTGGC

template	TGGCTGATGTGGGAGAGGGGAAGCATACCCTGACAGTGGAGGCGACCGACAAGGCGGGAA
query	TGGCTGATGTGGGAGAGGGGAAGCATACCCTGACAGTGGAGGCGACCGACAAGGCGGGAA
template	ACAAAACGACGCAGCAACTGGACTTCATCATCGATACCCTACTGTGACAACCGACTATCG
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query	CGGCGACGCAAAACGCTTGAATTTTTTCATCGACACCCGGTTGTCGACGCCGACCATTGCGC
template	TGGTAGCACGGATGATACCGGTACGCCTGGCGATGATATGACCAATCGCACCCGACCGA
query	TGGTAGCACGGATGATACCGGTACGCCTGGCGATGATATGACCAATCGCACCCGACCGA

template query	CCTTTATTCTGCAGAATATCGATTTCGGATGTTATCAACGTTACAGTCAGCGTCACGCATA
template query	ATGGAACGACAACCTCGTTTACTGCGACACAGGGGGCTGGAGGATGGAGCTTTACACCGC ATGGAACGACAACCTCGTTTACTGCGACACAGGGGGCTGGAGGATGGAGCTTTACACCGC
template query	CAGCGCCGTGGGGCGACGGTGATTATACGCTGACGGTGACAGTGAGGATCGGGCGGGAA CAGCGCCGTGGGGCGACGGTGATTATACGCTGACGGTGACAGTGAGGATCGGGCGGGAA
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template query	GCAACCAGCAAACATCCGCGCCTTTAAAGGTGACGATAGACGGTACGTTGACTACGCCGG GCAACCAGCAAACATCCGCGCCTTTAAAGGTGACGATAGACGGTACGTTGACTACGCCGG
template query	TGATTGAACTGGCAGCTGGCGAAGATAGCGGTACTGTTGGCGATCGCCTCACCAATCACG TGATTGAACTGGCAGCTGGCGAAGATAGCGGTACTGTTGGCGATCGCCTCACCAATCACG
template query	ATCGGCCTGTGTTGACATACATCAGGTTGATTCTGACGTTACGCGCGTGATGGTCAAAG ATCGGCCTGTGTTGACATACATCAGGTTGATTCTGACGTTACGCGCGTGATGGTCAAAG
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template query	ATGGTGGCGCTAACTGGAATGTGATACGCAAAAATGCCGACGGACAGTGGATTTTGACA ATGGTGGCGCTAACTGGAATGTGATACGCAAAAATGCCGACGGACAGTGGATTTTGACA
template query	GCCCCAATACTCTGGTTGACGGCACATATACCTTCGCGTAGAGGCCACGGATGAGGCAG GCCCCAATACTCTGGTTGACGGCACATATACCTTCGCGTAGAGGCCACGGATGAGGCAG
template	GTAATATTGCGAATAAAGATTTAGTATTTAATATCGATACTAATATACAGGTTCTACTA



query	GTAATATTGCGAATAAAGATTTAGTATTTAATATCGATCAATATACAGGTTCCCTACTA
template	TTGCTTTAGACGCAGGACAAGATACCGGAGCGAATACCGCCGATAATATTACTAATATTT
query	TTGCTTTAGACGCAGGACAAGATACCGGAGCGAATACCGCCGATAATATTACTAATATTT
template	CACGACCCACCTTTACGATTGGTAATGTTGACCCCGATGTTATCAAAGTCGTGGTGACGA
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template	CCGCGACATCGAAACCATTACCTGTTGTGATAGATACGACGGCTGAAATTGAAAGCGTCA
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template	GGGCAGGTAATAAATGGCTGTTTACCCCTGATACACCGTTAGTGGATGGAACCTACAAAA
query	GGGCAGGTAATAAATGGCTGTTTACCCCTGATACACCGTTAGTGGATGGAACCTACAAAA

template	TAGAAATAGTGGCTGAAGATATCGCAGGTAATAAAATTAGCAAAGAGGTATCATTCACAA
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template	ATGTCACGCCCTCCAACCATAAAGCTCAGCGAGGAGAGCGATAGTGGCGCCTTAGGAGACT
query	ATGTCACGCCCTCCAACCATAAAGCTCAGCGAGGAGAGCGATAGTGGCGCCTTAGGAGACT
template	TTACCACGAATAATAAAACGCCGACCCTGATTGGGAGCACGTTACCTAATACGATTGTGA
query	TTACCACGAATAATAAAACGCCGACCCTGATTGGGAGCACGTTACCTAATACGATTGTGA
template	GTATTTATGTGGATGGCGTGAAGGTCGGCGAGGCGACAGCGGATACAGCGGGTCGATATA
query	GTATTTATGTGGATGGCGTGAAGGTCGGCGAGGCGACAGCGGATACAGCGGGTCGATATA
template	CTTTCCAGTTATCGGAAATGAAAGATGGCCATTATGTCGTCCAGGTGGGTATCGTCAACC
query	CTTTCCAGTTATCGGAAATGAAAGATGGCCATTATGTCGTCCAGGTGGGTATCGTCAACC
template	CTCGCGATAATAGCGAACTGCGTTCTACCGCGTTGATGTCACCTATCGATACCGAGGTTG
query	CTCGCGATAATAGCGAACTGCGTTCTACCGCGTTGATGTCACCTATCGATACCGAGGTTG
template	CTGAACTGGTATGGAATATATCTGGAATGCATGAGGGCGGATATATCAATACGGTGACGC
query	CTGAACTGGTATGGAATATATCTGGAATGCATGAGGGCGGATATATCAATACGGTGACGC
template	CGGAGATTGGCGGCACCAAGTGAGCCAAACAGCAAAATCACTATCTTTGTGAATGGCGTTG
query	CGGAGATTGGCGGCACCAAGTGAGCCAAACAGCAAAATCACTATCTTTGTGAATGGCGTTG

template	AAAAAGCGATTGCTTATACGACAGGCGCAGGACACTGGGGCGTAGTATTACCCGCTTTGG
query	AAAAAGCGATTGCTTATACGACAGGCGCAGGACACTGGGGCGTAGTATTACCCGCTTTGG
template	GTAATGACGGTAATTATGAATTAACGTTTAAAGTTGAAGACGTTGCCGGTAATATCAGAG
query	GTAATGACGGTAATTATGAATTAACGTTTAAAGTTGAAGACGTTGCCGGTAATATCAGAG
template	AGTTTGGTCCGCAGAATGTAATACTGGATACAGTAATTCGCCGTTAACCGTGGTATTAC
query	AGTTTGGTCCGCAGAATGTAATACTGGATACAGTAATTCGCCGTTAACCGTGGTATTAC
template	GCGAAGCTGATGACAGTGGCAAAGTTGGCGACTGGATACCAATAAATCTCATGTCACCA
query	GCGAAGCTGATGACAGTGGCAAAGTTGGCGACTGGATACCAATAAATCTCATGTCACCA
template	TCGATGGTACTGCCGAAGCCGGAAGTACTTTAACCATCAGGAATCCGCAGGGAGTGGTTA
query	TCGATGGTACTGCCGAAGCCGGAAGTACTTTAACCATCAGGAATCCGCAGGGAGTGGTTA
template	TTGCTACCCTGGTGGTAGGCAATGATGGTCGATGGAGCGCAGAATTAGATCTGCGTGAAG
query	TTGCTACCCTGGTGGTAGGCAATGATGGTCGATGGAGCGCAGAATTAGATCTGCGTGAAG
template	GTAGTAATGCCTTTGTCGTGGTATCGGAAGATAAAGCGGGCAACAGTCAACAAAAAGAGA
query	GTAGTAATGCCTTTGTCGTGGTATCGGAAGATAAAGCGGGCAACAGTCAACAAAAAGAGA
template	TTCTGATAGAACATGATACGCAGATTGAAATCAGCGATATTCATTAAGTCGGGATACTA
query	TTCTGATAGAACATGATACGCAGATTGAAATCAGCGATATTCATTAAGTCGGGATACTA
template	ATAGCGGTGATAAATATGATCTGATTACCAATAATAAGTCTCCGGTACTGGTTGCCATGA
query	ATAGCGGTGATAAATATGATCTGATTACCAATAATAAGTCTCCGGTACTGGTTGCCATGA
template	CCGATCCCGGCGCGACGGTACAGGTTTATATTAATGGTGTGTTACAAGGCACAGTAGAGG
query	CCGATCCCGGCGCGACGGTACAGGTTTATATTAATGGTGTGTTACAAGGCACAGTAGAGG
template	CGAGTTCGTCAAGTAATATTAGCTATACCATGCCGGCAAATAGCGCCGACGGCGAGTATC
query	CGAGTTCGTCAAGTAATATTAGCTATACCATGCCGGCAAATAGCGCCGACGGCGAGTATC
template	AGGTGCAATTTGTTGCTACGGATACTGCTGGTAACCGGGTTGAGTCTGCGATTACAACCG
query	AGGTGCAATTTGTTGCTACGGATACTGCTGGTAACCGGGTTGAGTCTGCGATTACAACCG
template	TGACAATCGATTCTCAAATTGCTGTCTTTGATATTGATGAAGATTCATTACCGGCCCTCT
query	TGACAATCGATTCTCAAATTGCTGTCTTTGATATTGATGAAGATTCATTACCGGCCCTCT
template	CTAATAACCGAGCGTTGTCAAGTCTCAGGTGTCGGGGAGGCTGGTTCTCAGGTCAGCATCT
query	CTAATAACCGAGCGTTGTCAAGTCTCAGGTGTCGGGGAGGCTGGTTCTCAGGTCAGCATCT
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template	CGATACTGCTGCAAGATGATGGTACGTTTAATATTCAATTCAGCATTACTGACGTTGCTG
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query	GCAACACTGAAGTGAGCAAGGATTATAGCGTGGATGTCGATTCATCAACCGACTTCCCAA
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query	AAAAGATCGTGGCAAATGTTCTTGTGCTTGAAGATGGAACCTGGTCCTATCAGTTTGATA
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query	ATGCGTTAAAAAGATGGTGAATATTCTATCCGTGTGGTTGCCGAAGACCCGGCAGGTAATA
template	CGGCAGAATCGCCTCGCTTACTCGTCACGATAGATACCAGTACGTTTATCGATAATCCTG
query	CGGCAGAATCGCCTCGCTTACTCGTCACGATAGATACCAGTACGTTTATCGATAATCCTG
template	CTATGGTGGCAGGTTCGATAATGGTATTTTCAGTAATGATAGTATAACGAGTCAGACCC
query	CTATGGTGGCAGGTTCGATAATGGTATTTTCAGTAATGATAGTATAACGAGTCAGACCC
template	GGCCTACGTTTAGTATTTTTGGAGAAATGAACCAGAGTGTTTCAGATTTTCATTGATGGAG

query	GGCCTACGTTTAGTATTTTGGAGAAATGAACCGAGTGTTTCAGATTTTCATTGATGGAG
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query	TGCTAGTCGATACGATCACGGTGACCGACAGAAATCAAGTTTATCGACCTGAGTCACCGT
template	TGGGCGATGGTTCCCATAGCATTTATTATGTTATCACCGATAAAGCAGGCAACACGGCTA
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query	CCTCGAAAACGCTAAACTTTACTATCGATACCTTTAATACGACGCCTGTCGCCATTGATT
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query	ACACGACGCGTAACTTATTGTTTAGTGGCAGTGCCGAGCCCAATAGCAAAATAGAAATCA
template	TCATTAATGGCTTAAATGTGGGGGAAGTTTGGGTTAATGAAAAGGCCACTGGCAGATGC
query	TCATTAATGGCTTAAATGTGGGGGAAGTTTGGGTTAATGAAAAGGCCACTGGCAGATGC
template	CGGTGAACCCGCTTTATTTACAGAAGGCCAACTGGATATCACTGTTAAATCTACGGACC
query	CGGTGAACCCGCTTTATTTACAGAAGGCCAACTGGATATCACTGTTAAATCTACGGACC
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query	TTACCAGCGAGCTTGATGACAATAAATCATCATCGAAAACGGAATGGTGGAGTAATAGCG
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query	GCGTCACGCTGGCAACTGCTGTTGTGGCGGCAACAGGACGATGGGAATTATCAACAGACA
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query	GGGAAGATGTGCGTGAAATATTTATTGACCGAACGCCGCCAAATGCTCCGGTCGTAACGT
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query	TAATAATAACCGATAGTGAGGGGAATACTTATACGTTAACCGTTCCCTGATAATGGTAAAT
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query	GGAGTATGGCTATCCCGTATCCATCAGAAGGGAAGTTTACCATTACGAGTGTGGATGCTA
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query	TTGGTAACCGGAGTGATGATGTCCCTCTCGATATCATGAAAAGAGGTTCCCGTTATTTTCAT
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query	CCTTTATTATCGGGAATCTGGAAGCGATGTTGTGGTCGTTACGGTCGATATCAATGGGA
template	CCGTATATAATGCTGAAAAAAATGCCGATGGCGTTTGGTTCTTTACGCCAGGTACACCGT
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template	ACTCGTTACCCATTACTGTCACGATCGACAGCACGCTGACGGTGCCGGAGATTGCGTTGG
query	ACTCGTTACCCATTACTGTCACGATCGACAGCACGCTGACGGTGCCGGAGATTGCGTTGG
template	CAGCAGGTGAAGACAATGGCGCTTCAGACAGCGATAACGTGACGAATCACACCCAGCCTA
query	CAGCAGGTGAAGACAATGGCGCTTCAGACAGCGATAACGTGACGAATCACACCCAGCCTA

template	AGTTCACGCTGCAGCATATTGATGCTGATGTGACCGGGGTGACCGTAAACGTGACGCATA
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template	ATGGCGTGACAGACATCTATCAGGCGACGCAAGGCGCGGATGGCTGGACCTTCACGCCGC
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template	CAGCCGCCTGGAATGACGGTAACTACACGCTGAGCGTGACGGTGGTGGATCGCGCGGGGA
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query	ATAGCCAGCATGACGATGCGAGCGATGACGCCACGGCAACAGCGTTACTCCACCGGAGT
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template	AAAGCGTGGTGAAGGTGACAGCCTATAGTATTACATTGTTAAACGCTGACTCTGGGGATG
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query	CAATATTCGAAGTCCGCTATCTTTGGAAGATGGTGAATATACTATGGACGTGAAATTCA
template	TTGATAAAGACAATGATTTCTTGATTAAGGAGAAAACATTCTCAGTCGATCACTCCTCGG
query	TTGATAAAGACAATGATTTCTTGATTAAGGAGAAAACATTCTCAGTCGATCACTCCTCGG
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query	CGGATATTGTGAACGCAATGAATGTAAGAGGAAAAGACCGAGGATGATATTAATGATTCCC
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query	AAGTTACGCTACCTGTAGATAATCAAGAAGAACACGCATAATAACGGAGGCCCTCACCT
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query	TAAATTTAAGATTTAAAAAGTACGACAGAAATAACACTGACGACTCTATACAAATGAAGA
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template	ATACTAAATACTTTTTTCATCTCTTTTTATGGCAATTTTTGCGTTAACTATCCCAGTAT
query	ATACTAAATACTTTTTTCATCTCTTTTTATGGCAATTTTTGCGTTAACTATCCCAGTAT

template query	TTAGTAATCTGTTCTATGATAAGCTTGTTCGAAGCGCTTCGGTTTCATCTTTATTTGGCG
template query	TGGCTATAATTGTTGCTGTATTTATTGTTTTGAGTTTATCCTTCGTACTTCGAAAAGATA TGGCTATAATTGTTGCTGTATTTATTGTTTTGAGTTTATCCTTCGTACTTCGAAAAGATA
template query	TTTATCAGTCTATCACAGCAAGGCAGGATGACGTCGATATTGATATCGCATTTCCTGAAG TTTATCAGTCTATCACAGCAAGGCAGGATGACGTCGATATTGATATCGCATTTCCTGAAG
template query	CGGTACTTTATAGTAAAAAGAAAAATGGCAGATCCATGTCATCAGCATTGTGCTATGGA CGGTACTTTATAGTAAAAAGAAAAATGGCAGATCCATGTCATCAGCATTGTGCTATGGA
template query	ATGAGTTTCAGAAAATTAACCCGTTTTATTAAACTCGATCTTCAACGTATAGCCGATA ATGAGTTTCAGAAAATTAACCCGTTTTATTAAACTCGATCTTCAACGTATAGCCGATA
template query	TTCCAATATTTATTATATTTCTCATTGTTATATATGTAAATTTAGGCTCGGTTGTTATTG TTCCAATATTTATTATATTTCTCATTGTTATATATGTAAATTTAGGCTCGGTTGTTATTG
template query	TACCTATTACCATGTTTATCGTCTCTATTATTATTTCCCTCGTTAACCACCATTATACTA TACCTATTACCATGTTTATCGTCTCTATTATTATTTCCCTCGTTAACCACCATTATACTA
template query	ATGAGTTAATGAACAAACAAAAGAAGGACAGAAGAACAGGAATATTTTATCTCAGAAG ATGAGTTAATGAACAAACAAAAGAAGGACAGAAGAACAGGAATATTTTATCTCAGAAG
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template query	ATCAATCTATATTGGGGAGTATGTCATCTATTACCCAAATAACTATTATGGTAATAGCCT ATCAATCTATATTGGGGAGTATGTCATCTATTACCCAAATAACTATTATGGTAATAGCCT
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template query	CTGGCCGTATTTCCGGGATCATTTTCGAATTTTTCTTCTACATTAATCTCTATTTTATCAG CTGGCCGTATTTCCGGGATCATTTTCGAATTTTTCTTCTACATTAATCTCTATTTTATCAG
template query	CAGAAAAAACCGTAAGGATCTGCTTCTTTTTTTTGATGAAGATCAGGCAGAAAAACAC CAGAAAAAACCGTAAGGATCTGCTTCTTTTTTTTGATGAAGATCAGGCAGAAAAACAC
template query	CGGCATTACAGTCAATATCAAAGTGCAATGGCGATATCTCTATCCGGGGCGTGAGTTATC CGGCATTACAGTCAATATCAAAGTGCAATGGCGATATCTCTATCCGGGGCGTGAGTTATC
template query	AGTATGATGCTCAATCTCCGATGATTATTAACCGACTGTCTATAGACATACCTGCGGGGC AGTATGATGCTCAATCTCCGATGATTATTAACCGACTGTCTATAGACATACCTGCGGGGC
template query	AACGTGTCGCGGTGGTAGGCGAATGCGGAGCAGGAAAAAGCTCATTACTGGGAATGCTAT AACGTGTCGCGGTGGTAGGCGAATGCGGAGCAGGAAAAAGCTCATTACTGGGAATGCTAT
template query	CTGGCTACCTTTCGCCAACAGACGGTGCCATTTTATATGATGGATATAACTTAGGACATT CTGGCTACCTTTCGCCAACAGACGGTGCCATTTTATATGATGGATATAACTTAGGACATT
template query	TATCGCAGAACTTTTTTCTCAGCATTTAAGCGTGGTGACGACACATGATGTTTTATTCA TATCGCAGAACTTTTTTCTCAGCATTTAAGCGTGGTGACGACACATGATGTTTTATTCA
template query	CCGGAACCATTGAAAGTAATTTTCGCGTTAAACCGCAAAACGACAGGGGCCGGGTACTCA CCGGAACCATTGAAAGTAATTTTCGCGTTAAACCGCAAAACGACAGGGGCCGGGTACTCA
template query	AGGCGCTTCAGCTGGCGAACTGTGGTTTTATCTTGCAACATCCTATGGGGCTGAAGTTTC AGGCGCTTCAGCTGGCGAACTGTGGTTTTATCTTGCAACATCCTATGGGGCTGAAGTTTC
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template query	GTAGTCTGAGTAGTGACGCCAGCGTCTTTTATGGGATGAACCAACATCAAATCTGGATG GTAGTCTGAGTAGTGACGCCAGCGTCTTTTATGGGATGAACCAACATCAAATCTGGATG
template	AGAATACCGAGAAGCAAATTTTTGATAACTTAGATGAGTTTATTCATGGGAAAACGTTGA

query	AGAATACCGAGAAGCAAATTTTGTAACTTAGATGAGTTTATTCATGGGAAAACGTTGA
template	TCATGGTGACGCATCGTCGATATCTGATAAAGTATTTTGACCGGGTCTGGTAATGAAAG
query	TCATGGTGACGCATCGTCGATATCTGATAAAGTATTTTGACCGGGTCTGGTAATGAAAG
template	GTGGAAAAATAATCCGTGATTGTTCTCCGGATAAATTATTAATGTAAAATAAGCAGCGCT
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query	TGTCGCTGTTATCAGGTGGTACTGCTTAATAAAAAAGACCCGTTGCACAAACGGGTCTTT
template	TTTGTCAITTAACGAGTCGGCAACGCTTCAATAAGTTTAGCTCGATTCTGTTAGGGCTA
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template	TTCCACTTGCCATTTTGGATAAACCACACCTGGCGGCCCTCATCAACGGCAATGCGAGGG
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template	ACGTGATGGTGCGCAAGGCTACCCCTGGCGCGGATTCCGCGTTGAGATAACCGGTGGGC
query	ACGTGATGGTGCGCAAGGCTACCCCTGGCGCGGATTCCGCGTTGAGATAACCGGTGGGC
template	GGCTTCAGCGGCAGCGATAGCGTATCAGGTAGCACCATCGGCCATTCTGGCGGGGTCTG
query	GGCTTCAGCGGCAGCGATAGCGTATCAGGTAGCACCATCGGCCATTCTGGCGGGGTCTG

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template	CGGAAGTGTGGCCGAGCGGTTGAAGGCACCGGCTTGAAAACCGGCGACCCGAAAGGGTT
query	CGGAAGTGTGGCCGAGCGGTTGAAGGCACCGGCTTGAAAACCGGCGACCCGAAAGGGTT
template	CCAGAGTTCGAATCTCTGCGCTTCCGCCAGATTAACAAGGGGTTACCGAAAGGTAGCCC
query	CCAGAGTTCGAATCTCTGCGCTTCCGCCAGATTAACAAGGGGTTACCGAAAGGTAGCCC
template	CTTTGTTTTTTTAGGCGCTATAGAATATAGTTAGAAAATACTGTTAGAATATTTCCCGAA
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template	TACTCCACCACACACTCTGGCTCCAGACGGAATTCACTGTTTATGGCAAGGCTGTCATGA
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template	GCAAGGCGTAGCCGTGAGGGGTTTGGTGATGTTCCGGGAATATCGGGGAAAACAGGTGTA
query	GCAAGGCGTAGCCGTGAGGGGTTTGGTGATGTTCCGGGAATATCGGGGAAAACAGGTGTA
template	TCTGCGGTATTTAATCTATATGTGGATACTCCGCTTTGAGGTATTAATCTGTAGGTGACC

query	TCTGCGGTATTTAATCTATATGTGGATACTCCGCTTTGAGGTATTAACTCTGTAGGTGACC
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query	GGAAGCATAA CTTCTTATTTCTGACTACAATTATGAATTATTTAAATTAACAATAATA
template	GTGTTTTAGTTAATGTGCCACATACAGGTAACGCTATGATTAGACAAAGCCAACAAGT
query	GTGTTTTAGTTAATGTGCCACATACAGGTAACGCTATGATTAGACAAAGCCAACAAGT
template	AATACGCTGAAAA GTTATTTATAATGAAACTTAGGGGCGGGGTTTATTTAATAAAACAA
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template	GGGGGCCTCTGTTTGAATACTTCTTGTTTATAAAATCCCTTTATCTCGACTAAAATATCG
query	GGGGGCCTCTGTTTGAATACTTCTTGTTTATAAAATCCCTTTATCTCGACTAAAATATCG
template	GATGGGGGAAAAGAGTTCTATCATTGTAATCCGGGAGTGGAGTAGGGGTATGTTGACTAC
query	GATGGGGGAAAAGAGTTCTATCATTGTAATCCGGGAGTGGAGTAGGGGTATGTTGACTAC
template	CTGTCAGATCGGCTCCTGTTAATGCTTTCGCTAAAGTTAGAGCTATCTTATCTAATTTTCG
query	CTGTCAGATCGGCTCCTGTTAATGCTTTCGCTAAAGTTAGAGCTATCTTATCTAATTTTCG
template	CACCATTTAGTTTGGTGTCA GTTTAAGTCTGAGCCGAATAGAATTGCAGCGGTTAAGTTTA
query	CACCATTTAGTTTGGTGTCA GTTTAAGTCTGAGCCGAATAGAATTGCAGCGGTTAAGTTTA
template	CACCGGACATGTTAGCGCAAGTCAGGTCTGCGTGAGTCAGGTTTGCTTTAGTCATGTTTG
query	CACCGGACATGTTAGCGCAAGTCAGGTCTGCGTGAGTCAGGTTTGCTTTAGTCATGTTTG
template	AACCCATTAGATTTACAGCGTGTAGATTTGCACAACACAAATTTGCACCGACTAAATTTA
query	AACCCATTAGATTTACAGCGTGTAGATTTGCACAACACAAATTTGCACCGACTAAATTTA
template	CATTAGATAGAGTTGTTTCACGGAAATCTGCATTAGAAGCATCTATTTTTGACAAATCTT
query	CATTAGATAGAGTTGTTTCACGGAAATCTGCATTAGAAGCATCTATTTTTGACAAATCTT
template	CCCCCTGGAAATCTTTATGAGCCAGGTTTACTCCGCGCAGGTTCAGAAAACCATCCTCGG
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template	TTATAAGTGAATCAGGCTGTTGTATATTATGTTTACTCATCAGTTTTAACATTTCGACATA
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template	CATTCCAAAATCTCTCACTATCAACTTTATCCGTTACAGTTTTTCCATTTTTGTTCACTT
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query	CAATAATGACCATGGGATCCGTATTTTCGGATGCTGCTCCACATGACAGACATATAGTAC
template	ACCCGTTGACATCCTCCAGAAATATTTTATTACCATCGAAGAAAGCATTTTTATTACAT
query	ACCCGTTGACATCCTCCAGAAATATTTTATTACCATCGAAGAAAGCATTTTTATTACAT
template	ATAATAATGATGTGGTCAGTTTTCCAATTACCTCCCGAAACCATCTTTCATTGCTTCTTC
query	ATAATAATGATGTGGTCAGTTTTCCAATTACCTCCCGAAACCATCTTTCATTGCTTCTTC
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template	CACTTTTATTGCTTCTTTTCGTACCGGTACCGGCCGATGCAAAATATCTTAATATATTTT
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template	TTGTATTTAGAGCTTTGGTTGAGTATGAGTAGGTGTCTGGCATCTGACAAGAGGCGATGA
query	TTGTATTTAGAGCTTTGGTTGAGTATGAGTAGGTGTCTGGCATCTGACAAGAGGCGATGA
template	TATCTGCCATAACGGTGAAGCAGAAGTAATATCACCCGTGAATAATAAGATTATCCTTGC
query	TATCTGCCATAACGGTGAAGCAGAAGTAATATCACCCGTGAATAATAAGATTATCCTTGC
template	TATTGACTTCCTTCATTTCCAGCATAGCTTACGCTTCATCATCATTGAATAAACAATTAA
query	TATTGACTTCCTTCATTTCCAGCATAGCTTACGCTTCATCATCATTGAATAAACAATTAA



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query	GTTTGTGAGCGAAAATTTACTTAAAGAAAAATAATAAGCACCAATATTTTTGCAGTA
template	TTTCAACTTATACCAGAATAAATGCGCGTAGATGGCGTAAAAACCTGATGAGCAGGAATA
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query	TGAATCCATCATCCCTGTACGATCTTGCCGCTTTTACAATTCCAGGCGGGTACCGCGTC
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query	TCCCTGACGTACCCACTCAATGGTTTTCTGGTTATCTTCAATCAATAAAATCTTCATCAA
template	CGCAGTATGCCATAGGCTTGTTAGCGAATCCGTAAATCTCCAACAAGATGACATAATTGT
query	CGCAGTATGCCATAGGCTTGTTAGCGAATCCGTAAATCTCCAACAAGATGACATAATTGT
template	CATGTCCGT
query	CATGTCCGT

# **SPI-9\_NC\_003198**

template	ATGCGTCTACTCGCCGTGGTTTCGAAATTGACTGGCGTCTCCACCACTGTGGAATCCTCA
query	GCGGACGGAAAAACGGTAAGCGGGCAAGCCGAAGCGGGCAGTACCATTACCATCAAAGAT

template query	GCGGTCACTCTTAACGCGCCTTCAATTGTTAAATTATCAGTGGCCGGGATGAAATTCAGTCCCTCAGGCAACGTCGTTGGCGAGGGCAAAGCGGATAGCGACGGTAAATTTAGTATTGAT
template query	CAACTTACGCGCATTAAATCAGGATCTGGTGGTGAGGCTCCATTCCGGCGAAACGATCACGCTGACAGCGCCACAGATTAGCGGCGAACAACCTACCGTGACCGCGACTGACGATGCCGGC
template query	ATTAAAACTTTACGTTACCAACGATCTGGGCGCAAGCCAGCTGGTACTGGCGGAAACAAATACCGGCCATCGGCAACCATTGATGCGCCCAACATTCTCTCCCCGATACACCGGTT
template query	GATGGCACGTTATGGTGGGTGAAAATCCGCAAGCCGGGCTACATTTTGAACAAATCGCTATCACCGCCGCTATCGATGATGCCGCTCCCCCTACCGGCACGCTGAGCAATAATCAGTTT
template query	GATATTAATGAGCTGCTGGTCACCTCCGGCGCTTCCCATGAAGCAGGCGGCGCGTTTGGACGAACGACAATACCCCACTCTGGAGGGCACCGGCAGCGCAGGCACAGTCATCCATATT
template query	CCGTGGGTACTGGCTGGCGCGGTGGCGGCTGGCGGCATTGCCGCTATCGCGTCTTCCGGCTACGCCAATGGTCAGGAAATAGGCTCAACAACGGTTGATACCAGCGGAAACTGGCATTIT
template query	GGCGGCGATTCCCACCATCATTTCGGATGGCGATAATCCGCCCCCCGATAACACCAATCCTGCCATTACCAGCGCGCTAGCGGATGGGGAAAATCATTTCACCGCCATTGCGACTAACGTG
template query	GACGGTAATCCCCCTGATAACAGCAATCCGGCGGCAGTAACCTTAACGGCAATACTCCAAGAGCGAAAGTAGCGAATCAGCCCGCTTTACGCTGACTATCGACACACTCATCCCCGAT
template query	GGTAGCAGTAATCCTGTAGATACTACCCCGCCTCTCGCTCCCGGCGAATTATTGATTTCAGCCCCACGTGTTGAACTGATTGCCGATAACACCAAGTTTGCTCACCGGGCCGCTACAGAAT
template query	GCGGACGGAAAAACGGTGAGCGGCGAGGCCGAAGCGGGCAGTCTCATTACCATCAAAGATAATGACCGAACTGACGAGGCAAAACCGCTATTTTCCGGGCAGGGAGACGCAGGCAATACC
template query	CCCTCAGGCAACGTCGTTGGCGAGGGCAAAGCGGATAGCGACGGTAAATTTAGTATTGATATCACGATTAAGAAGGTTCAACCGTTATCGGCAGCGCTACCGTAGACGAAAATGGACGC
template query	CTGACAGCGCCACAGATTAGCGGCGAACAACCTACCGTGACTGCGACTGACGATGCCGGCTGGACCTTTACGCCGACTACGCCGTTAAGCGATGGCGAACATACCTTTACCGTCGAACAA
template query	AATACCGGCCCATCCGCAACCATTGATGCGCCCAACATTCTCTCCCCGATACACCGGTTAGCGACAAGCCGGAAAAACAGAGCCGCGTGACGACAACGCCCTACTATCATTGTGGACACC
template query	ATCACCGCCGCTATCGATGATGCCGCTCCCCCTACCGGCACGCTGAGCAATAATCAGTTTACGCCGCTGACGCCGCTATCATTGATAATGTTGCGAAAGACGGCACAACCGTTAGCGGC
template query	ACGAACGACAATACCCCACTCTGGAGGGCACCGGCAGCGCAGGCACAGTCATCCATATTACCGCTGAAGCTGGCAGTACTGTGTCGATCTATGACCCGGCGGGAAATTACCTGGGCTCC
template query	TACGCCAATGGTCAGGAAATAGGCTCAACAACAGTTGATACCAGCGGAAACTGGCATTITACGATTACCGGAGAAAAATAACCACTTCAGCATCACGCTGAATCCGGCTCAGACCCACGGC
template query	GCCATTACCAGCGCGCTAGCGGATGGGGAAAATCATTTACCGCCATTGCGACTAACGTTGAGCGTCTGGAAGCGCGTATTACGACGCCGTCGTTAACATCGGCCCGCCACGGAGTTT
template query	AAAGGCGAAAGTAGCGAATCAGCCCGCTTTACGCTGACTATCGACACACTCAGCCCCGATACCGCTTCTGACTCACAGTATCCTGCCAGCCGACTATCCTTACCGTGACGGATGACGCT
template query	GCTCCACGCGTTGAACTGATGGCCGATAACACCGGTTTGCTCACCGGACCGCTACAGAATGGCGCCGTTACCGGCTGCTGAAAAATGGCGATGCCACAGATGATAACCGCCAACCTC
template query	AATGACCGGACTGACGAGGCAAAACCGCTATTTTCCGGGCAGGGAGAGGCAGGCAATACCAGCGTACTGCTGAACCAAGGCAGTACGATATCGATTAAACGATAATGGCTTTCTGTAGCG
template query	ATCACGATTAAGAGGGTTCAACCGTTATCGGCAGCGCTACCGTAGACGAAAATGGACGCACCTTCCGCCCATGTGCTGCTGACGCTGACGGCAAAATGGAGCTTTACCCCTCGCTGGCG
template query	TGGACCTTTACGCCGACTACGCCGTTAAGCGATGGCGAACATACCTTTACCGTCGAACAGCTTGCCGATGGCGACCATGTCTTTACCGCTACCGGCACCAACGATCGCGGCACCAAGCGGC
template query	AGCGACAAAGCCGGAAACGAAGCCGCGTGACGACAACGCCCTACTATCATTGTGGACACCAGTCCGTCTCCTTTACCATTGATATCGACACGACGCCGCGGTGCTGGAAGGCCTGGCG
template	ACGCCCGCGGACGCCGCTATCATTGATAATGTCGCGAAAGACGGCACAACCGTTAGCGGC

query	GTTAGCGACGTCGGCGACAGACTCACCGGCACTACGGAAGCTGGCAGTACTGTGGTTATC
template	ACCGCTGAAGCTGGCAGTACCGTGTCTGATCTATGACCCGGCGGAAATTACCTGGGCTCC
query	AAAGACAGCCTGGGAAATACGCTCGGGAGTGGAACGGCAGGCAGCAGCGGTACCTTCTCA
template	ACGATTACCGGAGAAAATAACCACTTCAGCATCACGCTGAATCCGGCCAGACCCACGGC
query	ATAGGTATTAGCCCGCGAAAATTAAACGGCGAAACATTAAAGCATTAGCGTTACCGATAAA
template	GAGCGTCTGGAAGCGCGTATTCAAGACGCCGTCGGTAACATCGGCCCCGCCACAGAGTTT
query	GCCGCGAATAGCGGTCCGGTAGAAACGCTGAACGCGCCGGATAAACTGCGCTGCGGCA
template	ACCGCTTCTGACTCACAGTATCCTGCCAGCCGACTATCCTTACCGTGACGGATGACGCT
query	CCGGACGGTCTTACCGTGGCGACCGACGGTCTGTCCGTAAGCGGTACGGCGGAAGCCGGG
template	GGCGCCGTTACCGGCTGTTGAAAAATGGCGATGCCACAGATGATAACCGCCAACCCCTC
query	GCAACGGTCACATATCCGCGACAGTAGCAACACCGTACTTGGCAGCGCCGTGCTAATGGC
template	AGCGGTACTGCTGAACCAGGCAGTACGATATCGATTAAAGATAATGGCTTTCTGTTCCG
query	AACGGACAATTATCGTTCGCTGAATACGGCGCAGACTAACGGCCAGGCACCTATCGCT
template	AGCTTTCCGCCCATTTGCTGCTGACGCTGACGGCAAAATGGAGCTTTACCCCTCGCTGGCG
query	ACCGCCACCGATGTCGCGAAAAACGAAAGCGCCGCGCGACGGTTATCGCGCCGACAGT
template	CTTGCCGATGGCGACCATGTCTTTACCGCTACCGCGACCAACGATCGCGGCACTAGCGGG
query	ACCGCGCCGAAATGCCGAAAAACGTGGTAATTAGTGAGGATGGCACCAGTATCAGCGGC
template	CAGTCCGTCGCCTTTACCATTGATATCGACACGCAGCCGCCGGTGCTGGAAGGCCTGGCA
query	ACCGCCGAACCGGGTAGCGCCATCACGATCGCCACGCCGGACGGCAAGCCGCTTGGCAGC
template	GTTAGCGACGTCGGCGACAGACTCACCGGCACTACGGAAGCTGGCAGCACTGTGGTTATC
query	GGCAAAGCAGATGGCGAAGGTCATTTTACCCTTCCCCTCGTCCCCGCACAGACCAACGGC
template	AAAGATAGCCTGGGAAATACGCTCGGGAGTGGAACGGCAGGCAGCAGCGGCACCTTCTCA
query	GAACAGGTTACCGTCACCGCCACCGACAGCGCCAACAACGTACGCCGCCAACCACAGCG
template	ATAGGTATTAGCCCGCGAAAATTAAACGGTAAACATTAAAGCATTAGCGTTACCGATAAA
query	CAAGCGCCCGATATCACCGCCCCGGATAAGCCCATTTACTCAGGTACTGGACGATGTT
template	GCCGCGAATAGCGGTCCGGTAGAAACGCTGAACGCGCCGGATAAACTGCGCTGCGGCA
query	GAAAGCTTCACCGGGCCGCTGGTTAACGGACAACCAACGACAACCGTCCCACCCTT
template	CCGAACGGTCTTATCGTGGCGACCGACGGTCTGTCCGTAAGCGGTACGGCGGAAGCCGGG
query	AGCGGTACGGCGGAGGCCGGCGCGGTGTGAAAGTCTTTGATAACGGCTTTTCACTGGGA
template	GCAACGGTCACATATCCGCGACAGTAGCAATACCGTACTTGGCAGCGCCGTGCTAACGGC
query	CTCGCCACGCTACAGCCCAACGGTGCTGGACGTTTACGCCGTGCAAAATTTAGTGAA
template	AACGGACAATTATCGTTCGCTGAATGCGGCGCAGACTAACGGCCAGGCGCTTATCGCT
query	GGCGCGCATCGACTGACCGTAATCGCAACCGACGCTAAAGGCAATGCCAGTCAGGCCGG
template	ACCGCCACCGATATAGCGAACAACGAAAGCGCCGCGCGACGGTCGACGCGCCGGACAGT
query	TCATTGACCTGGTGGTCGATACGCAATCGCCGACGAACCGGTAATCACCTTCATTACA
template	ACCGCGCCAGAAATGCCGAAAAACGTGGTAATTAGTGAGGATGGCGCCAGTATCAGCGGC
query	GATGATGCGCCGGGTATTCTCGGTAGCGTCGCGCATCTGGGGCTCACTAACGACAGCACG
template	ACCGCCGAACCGGGTAGTCCATTACGATCACACGCCGGACGGCACGCCGCTCGGCAGC
query	CCAACGATTAATGGTACAGGTGAACCGGGTTCCACAGTACACCTGTATCAGAAATGGCGCC
template	GGCAAAGCAGATGGCGAAGGTCATTTTACCCTTCCCCTCGCCCCGCACAGACCAACGGC
query	CGGATAGCAGATATTATCGTCGGTAATTCGGCGCTGAGAGCTACGCTTACACCACGGCC
template	GAACAGGTTACCGTCACCGCCACCGACAGCGCCAACAACGTACGCCGCCAACTACAGCG
query	TCGCCACTGGCGGACGACACCTACACCTTTACCGTGACGGCCAGCGACAGTAACGGCAAC
template	CAAGCGCCGATATCACCGCCCCGGATAAGCCCATTTATCACCAGGTGCTGGACGATGTT
query	ACCACGCCTTTTCGACCGATTTTACGATTACCATTGATACCCAGGCCCTGCGCCCCC
template	GAAAGCTTCACCGGGCCGCTGGTTAACGGACAACCAACCAATGACAACCGCCCCACCCTT
query	GGCGTTATCGGCGTAGCTGACGGCGACGGAATACGATTGATACCAATCAGATTACCCAG

template	AGCGGTACGGCGGAGGGCTGGCGCGCGTGTGCGAAATTTTGTATAACGGCGTTTCGCTGGGG
query	GAATCCCAGCCCCGGTTGAGCGGTAGCGGCACCGAGGCGACACAATCATCTTTACGAT
template	CTCGCCACGCTACAGCCCAACGGCGGCTGGACGTTTACGCCGTCGCAAAATTTAGGTGAA
query	AATGGCAATGCCATAGGTGAGCGCTGGTCGGCACGGACGGGCGCTGGCAGTTTACGCCG
template	GGCGCGCATCGACTGACCGTAATCGCAACCGACGCTAAGGCAATGCCAGTCCGGCGGGG
query	CCTGCCGCGCTGGGCGACGGCGACCACTTCTGACCGCTCGCGCCAACGATCCGGCGGGG
template	AACGAAAGTCCGGAATCCATCAGCTTTACCTTACGCATCGATACCCAGGCGCGGATGCG
query	AACGAAAGTCCGGAATCCATCAGCTTTACCTTACGCATCGATACCCAGGCGCGGATGCG
template	CCGCAGATCGTGTAGCCGCCATCACAGGCGGAGAAGGCGAGGTGCTACTGGCAACGGC
query	CCGCAGATCGTGTAGCCGCCATCACAGGCGGAGAAGGCGAGGTGCTACTGGCAACGGC
template	AGTATTACCAATCAGCGTATGCCGACCCTCAGCGGCACCGCGAACCCGGCGCCATCATC
query	AGTATTACCAATCAGCGTATGCCGACCCTCAGCGGCACCGCGAACCCGGCGCCATCATC
template	ACCTGTACAATAACGGCGTAGAACTGGCTACCGTCCAGGTCAATCCACAGGGTAGCTGG
query	ACCTGTACAATAACGGCGTAGAACTGGCTACCGTCCAGGTCAATCCACAGGGTAGCTGG
template	ACCTATCCGCTAACCCGTAATCTGAGCGAAGGGTTAAACATCCTGACGGCCACCGCCACG
query	ACCTATCCGCTAACCCGTAATCTGAGCGAAGGGTTAAACATCCTGACGGCCACCGCCACG
template	GATGCCGCGAGGCAATAGTAGCCCGACCTCCGGCGTTTTCTCCGTTACCTTGATACCCAG
query	GATGCCGCGAGGCAATAGTAGCCCGACCTCCGGCGTTTTCTCCGTTACCTTGATACCCAG
template	CCTCCAGCGCAGCCTGACGCGCCGCTAATCAGCGATAACGTGCGGCCGTTATCGGCAAC
query	CCTCCAGCGCAGCCTGACGCGCCGCTAATCAGCGATAACGTGCGGCCGTTATCGGCAAC
template	ATCGGCAATAATGGCGCAACGAACGATACCACGCCGACCTTCAGCGGCACGGGAGAGATC
query	ATCGGCAATAATGGCGCAACGAACGATACCACGCCGACCTTCAGCGGCACGGGAGAGATC
template	GGCAGCACGATAATTCTCTACAATAATGGCAGTGAAATTGGTCGCACAACGGTAGGCGAT
query	GGCAGCACGATAATTCTCTACAATAATGGCAGTGAAATTGGTCGCACAACGGTAGGCGAT
template	AACGGTAGCTGGAACTTTACGCCTGCGGCACGTACGCCAGAAACCTATACCATTACCGTC
query	AACGGTAGCTGGAACTTTACGCCTGCGGCACGTACGCCAGAAACCTATACCATTACCGTC
template	ACGGAAACCGATATAGCGGGCAATATCAGTCCACCTTCCGCCTCAGTCACTTTTACGCTA
query	ACGGAAACCGATATAGCGGGCAATATCAGTCCACCTTCCGCCTCAGTCACTTTTACGCTA
template	GACACCACTGCGCCCGCCAATCCGGTTATCACTTTTGCCGAAGATAACGTGCGCGAAGTC
query	GACACCACTGCGCCCGCCAATCCGGTTATCACTTTTGCCGAAGATAACGTGCGCGAAGTC
template	CAGGATACTATTGTGACGGGCGCAACCACTGACGACAATACACCGGTCAATTCACGGCACT
query	CAGGATACTATTGTGACGGGCGCAACCACTGACGACAATACACCGGTCAATTCACGGCACT
template	GGCGACATCGGCAGCGTATACGCTCTATAATGGCAGTAGTGTGTTGGGCGTAGTCACC
query	GGCGACATCGGCAGCGTATACGCTCTATAATGGCAGTAGTGTGTTGGGCGTAGTCACC
template	GTCGATGAGACCGGTACCTGGACGCTGCCGGTGACCAGCGCGTTGCCGGATGGCGTCTAC
query	GTCGATGAGACCGGTACCTGGACGCTGCCGGTGACCAGCGCGTTGCCGGATGGCGTCTAC
template	ACCCTGACCGCCATTGCCGCCGATGCCGCCGAAACAGCAGCGGCGTATCGAACAGCTTT
query	ACCCTGACCGCCATTGCCGCCGATGCCGCCGAAACAGCAGCGGCGTATCGAACAGCTTT
template	ACCTTCACCGTCGACACCGTTCCGTTGCAGCCGCCGTCGTCAATGATCCTCGACGAT
query	ACCTTCACCGTCGACACCGTTCCGTTGCAGCCGCCGTCGTCAATGATCCTCGACGAT
template	GTTGCACCAAGTGACCGGGCCATTAAACGATGGCGCCTTTACTAACGATCGGACGCTGACT
query	GTTGCACCAAGTGACCGGGCCATTAAACGATGGCGCCTTTACTAACGATCGGACGCTGACT
template	ATTAACGGCAGCGGCGAAACGGCAGCACCGTCACGATTTACGACAATGGCGTGGAATC
query	ATTAACGGCAGCGGCGAAACGGCAGCACCGTCACGATTTACGACAATGGCGTGGAATC
template	GGGACGGCGCTCGTTACCGACGGGGTCTGGACATTCAATACGCCGAATTGTCAGAAGCC
query	GGGACGGCGCTCGTTACCGACGGGGTCTGGACATTCAATACGCCGAATTGTCAGAAGCC



template	AGCCATGCGCTAACCTTCAGCGCGACTGACGATGCTGGAAATACCACGGCGCAAACCCAG
query	AGCCATGCGCTAACCTTCAGCGCGACTGACGATGCTGGAAATACCACGGCGCAAACCCAG
template	CCGATCACATTACCCTGGATATCACCGCCCCGCCGCGCCAACGATCCAGACGGTGGCC
query	CCGATCACATTACCCTGGATATCACCGCCCCGCCGCGCCAACAGTCCAGACGGTGGAT
template	GATGATGGCACGCGCTCGCCGGAATTGCCGATCCTTACGCTACCGTTGAAATTCATCAT
query	GACGATGGCACGCGCTCGCCGGAATTGCCGACCTTACGCTACCGTTGAAATTCATCAT
template	GCCGATGGCACCTGGTCGGCAGCGCTGTCGCTAATGGCACCGGTGAATTGTCTGTACG
query	ATCGATGGCACCTGGTCGGCAGCGCTGTCGCTAATGGCACCGGTGAATTGTCTGTACG
template	CTCAGTCCGGCGCAAACCGATGGCGGTACGCTGACGGCAATTGCTATCGATCGCGCGGG
query	CTCAGTCCGGCGCAAACCGATGGCGGTACGCTGACGGCAATTGCTATCGATCGCGCGGG
template	AATAACGGCCCCGGCTACGAATTTTCCCTGCTTCCGACAGCGGTCTGCCCGCCGTCCC
query	AATAACGGCCCCGGCTACGAATTTTCCCGCTTCCGACAGCGGTCTGCCCGCCGTCCC
template	ATCACGGCGATTGAAGATGATGTCGGGAGCATACAGGGGAATATTGCGCGGGCGCGCC
query	ATCACGGCGATTGAAGATGATGTCGGGAGCGTACAGGGGAATATTGCGCGGGCGCGCC
template	ACGGACGACACCATGCCGACGCTGCGCGGCACCACGGATATCGGCTCTACCGTTGAAGTT
query	ACGGACGACACCATGCCGACGCTGCGCGGCACCACGGATATCGGCTCTACCGTTGAAGTT
template	TTCATTGATGGCGATTTCGGCAGGCTTTGCCACCGTTGACGCCAGCGGGAACGGATCTTT
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template	AATGGCCCCGGCGGCTGTCCGACCGGTGCGGATCACTGTCGATCTTAGCGCGCCGGCA
query	AATGGCCCCGGCGGCTGTCCGACCGGTGCGGATCACTGTCGATCTTAGCGCGCCGGCG
template	CAACCGGTTATTACGCGCAACGGATGATGTCCCGCATGACCGGTACGCTGGATAAC
query	CAACCGGTTATTACGCGCAACGGATGATGTCCCGCATGACCGGTACGCTGGATAAC
template	GGCGCGCTCACCAATGATTACGCCCCGACGCTCAACGGAACGGGAGAAGCAGGCGCCACA
query	GGCGCGCTCACCAATGATTACGCCCCGACGCTCAACGGAACGGGAGAAGCTGGCGCCACG
template	ATCCGCATTCTGGATAACGGCGTAGAAATCGGTTCCGCTACGGTAGATCAAAGCGGCAAC
query	ATCCGCATTCTGGATAACGGCGTAGAAATCGGTTCCGCTACGGTAGATCAAAGCGGCAAC
template	TGGCGCTTCACCCGAACACGCCGCTGGAGAGCAACGCACACATCTTTACGCCGTGGCG
query	TGGCGCTTCACCCGAACCGGCCGCTGGAGAGCAACGCACACATCTTTACGCCGTAGCG
template	ACCGATCCCGCCGGCAATAGCGGTCAGCTTTCGGATTGGTTTACGCTGAACATTGACGCG
query	ACCGATCCCGCCGGCAATAGCGGCCAGCTTTCGGACGGCTTACGCTGAACATTGACGCG
template	CAGGCAACGATGTGCCGTTATCACCTCCGTGATTGACGATAACAATCAACCGACCGTC
query	CAGGCAACGATGTGCCGTTATCACCTCCGTGATTGACGATAACAATCAACCGACCGTT
template	CCGGTGTTACCGGGCAATCCACCGACGATCGGCAGCCAATACTGAACGGAACGGCGAA
query	CCGGTGTTACCGGGCAATCCACCGACGATCGGCAGCCAATACTGAACGGAACGGCGAA
template	CCTGGCGCGACAATCACCATTTTGTATAACGGTACGCCGCTTGGCACGGCTCAGGTAGGC
query	CCTGGCGCGACAATCACCATTTTGTATAACGGTACGCCGCTTGGCACGGCTCAGGTAGGC
template	GAAAAAGGTAGCTGGACCTTCCCGGTGCCCCGCAATTTGTGAGAGGGAAGCCATAATCTG
query	GAAAAAGGTAGCTGGACCTTCCCGGTGCCCCGCAATTTGTGAGAGGGAAGCCATAATCTG
template	ACGGTTAGCGCTACCGATCCGGCGGGCAATACCAGCGCGGTCTCCGCGCCGTGGACGATC
query	ACGGTTAGCGCTACCGATCCGGCGGGCAATACCAGCGCGGTCTCCGCGCCGTGGACGATC
template	GTGGTCGATATTACGCTCCGGCGATCCCGGTTCTCACTCCGTTGTGGATGACCAGCCC
query	GTGGTCGATATTACGCTCCGGCGATCCCGGTTCTCACTCCGTTGTGGATGACCAGCCC
template	GGTATTACCGGCAACCTGGTTAGCGGGCAGTAACGAACGATGCGACGCCACCCTGAAC
query	GGTATTACCGGCAACCTGGTTAGCGGGCAGTAACGAACGATGCGACGCCACCCTGAAC
template	GGGCGCGGAGAGGCAGGCGCGACGATTAATGTCTATCTTGACGGTAATCCCGCGTCCATC

query	GGGCGCGGAGAGGCGAGGCGGACGATTAAATGTCTATCTTGACGGTAATCCGCGTCCAT
template	GGTACCACGACGGTGAATAGCGACGGCACGTGGAGTTTCACGCCGACAGCGCGTTGCA
query	GGTACCACGACGGTGAATAGCGACGGCACGTGGAGTTTCACGCCGACAGCGCGTTGCA
template	AACGGTAGCCACACGTTACCCCTTAGCGCCACCGATCCGGCGGGTAATAGCAGCGCGGTG
query	AACGGTAGCCACACGTTACCCCTTAGCGCCACCGATCCGGCGGGTAATAGCAGCGCGGTG
template	TCCAGCGGATTTGTGCTGACGATTGACACACACCGCCCGCCGCGCGTTATCGCCAGC
query	TCCAGCGGATTTGTGCTGACGATTGACACACACCGCCCGCCGCGCGTTATCGCCAGC
template	GTGGCAGATAATACGGCGCCGGTAACGGGCATCGTCCCCAACGGCGGCTCGACGAACGAA
query	GTGGCAGATAATACGGCGCCGGTAACGGGCATCGTCCCCAACGGCGGCTCGACGAACGAA
template	ACCCGACCAACACTCTCGGGTACCGGTGAGGCGGGTACAACCATCTCGATTATAATGGC
query	ACCCGACCAACACTCTCGGGTACCGGTGAGGCGGGTACAACCATCTCGATTATAATGGC
template	AGCGCGCTGGTCGGCACGGCGCAAGTTCAGGCCAACGGTAGCTGGAGCTTTACACCGTCT
query	AGCGCGCTGGTCGGCACGGCGCAAGTTCAGGCCAACGGTAGCTGGAGCTTTACACCGTCT
template	ACCTCGCTGGGCGCGGGCGTCTGGAACCTGACGGCGACAGCAACCGATGCGGCAGGCAAT
query	ACCTCGCTGGGCGCGGGCGTCTGGAACCTGACGGCGACAGCAACCGATGCGGCAGGCAAT
template	ACCAGCGCCGCGTCCGAAATACGCTCGTTACTATTGATACCACGGCTCCCGCCGCGCCT
query	ACCAGCGCCGCGTCCGAAATACGCTCGTTACTATTGATACCACGGCTCCCGCCGCGCCT
template	GTTATTGATACGGTCTACGACGGTACGGGCCCCATTACCGGCAATCTGAGTTCAGGGCAG
query	GTTATTGATACGGTCTACGACGGTACGGGCCCCATTACCGGCAATCTGAGTTCAGGGCAG
template	ATCACAGACGAGGCGCGCCCTGTCATTAGCGGCACCCGTGAAGCCAACACAACATTTCGT
query	ATCACAGACGAGGCGCGCCCTGTCATTAGCGGCACCCGTGAAGCCAACACAACATTTCGT
template	CTCTACGATAACGGCACGCTGCTGGCTGAAATTCGCCGACAAATAGCAGTAGCTGGCGC
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template	CCGCTGACGCCGGTAATCACATCAGTCAGTGACGATCAGGCGCCAGGCCTCGGCACGATC
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template	GCGAACGGGCAAAATACCAACGATCCTACGCCAACCTTCAGCGGCACCGCAGAAGCCGGC
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template	GCCACGATCACGCTCTATGAAAATGGTACGGTCATTGGCACGACAACGGCTCAGCCTGAC
query	GCCACGATCACGCTCTATGAAAATGGTACGGTCATTGGCACGACAACGGCTCAGCCTGAC
template	GGCGCGTGGAGCGTCTCCACCTCAACGTTGGCAAGCGGAACGCACGTATCACCGCCGTC
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template	GCCACCGATGCCGCAGGAAACAGCAGCCCGAACAGTACGGCTTTCACCTGACGGTCGAT
query	GCCACCGATGCCGCAGGAAACAGCAGCCCGAACAGTACGGCTTTCACCTGACGGTCGAT
template	ACCACCGCGCCGCAACGCCAATCCTGACGTCCGTGGTGGATGACGTGCGGGCGGGGTC
query	ACCACCGCGCCGCAACGCCAATCCTGACGTCCGTGGTGGATGACGTGCGGGCGGGGTC
template	ACAGGAAATCTCGCTAATGGTCAGATAACCAATGATAACCGCCCCACGCTGAACGGCACT
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template	GCCGAAGCGGGCAGCGTGGTCAGTATCTATGATGGCGACACTCTGCTTGGCGTCACCTCG
query	GCCGAAGCGGGCAGCGTGGTCAGTATCTATGATGGCGACACTCTGCTTGGCGTCACCTCG
template	GCTAACGCTAGCGGCGCTGGAGCTTCACGCCGACGACAGGGTTAAACGACGGCACGCGC
query	GCTAACGCTAGCGGCGCTGGAGCTTCACGCCGACGACAGGGTTAAACGACGGCACGCGC
template	ACATTAACAGTGACCGCCACCGACCCAGCAGGCAACGTTAGCCCGGCCACAGCGGTTTT
query	ACATTAACAGTGACCGCCACCGACCCAGCAGGCAACGTTAGCCCGGCCACAGCGGTTTT

template	ACTATCGTGGTCGATACCCCTTGCGCCAACGGTTCGCGTTATAAACCAGCATCGTTGATGAT
query	ACTATCGTGGTCGATACCCCTTGCGCCAACGGTTCGCGTTATAAACCAGCATCGTTGATGAT
template	GTCCCGAACAATACCGGCGCCATTGGCAATGGACAATCGACCAATGACACACAGCCGACG
query	GTCCCGAACAACACCGGTGCCATTGGCAATGGACAATCGACCAATGACACACAGCCGACG
template	CTCAACGGTACCGCGGAAGCCAACAGCGCGGTAAGTATCTTCGATAATGGCGCGCTGGTC
query	CTCAACGGTACTGCGGAAGCCAACAGCGCGGTAAGCATCTTCGATAATGGCGCGCTGGTC
template	GCGACCGTGAACGCCAATGCCAGCGGCAACTGGAGCTGGACGCCAACCGCCTCGCTCGGC
query	GCGACCGTGAACGCCAATGCCAGCGGCAACTGGAGCTGGACGCCAACCGCCCGCTCGGC
template	CAGGGAAGTCAATGCCTATAGCGTTAGCGCCGCCGATGCGGCTGGCAACGTTAGCGCCGCT
query	CAGGGAAGTCAATGCCTATAGCGTTAGCGCCGCCGATGCGGCTGGCAACGTTAGCGCCGCT
template	TCGCCATCGACAACGATTATCGTGGATACCATTGCGCCCGCGCGCCCGGAACCTAGTC
query	TCGCCATCGATAACGATTATCGTGGATACCATTGCGCCCGCGCGCCCGGAACCTGGTC
template	ATCAATGCTACCGGTAATCGGGTGACGGGCACCGCGGAAGCAGGCAGTACAGTGACGATT
query	ATCAATGCTACCGGTAATCGGGTGACGGGCACCGCGGAAGCAGGCAGTACAGTGACGATT
template	ACCTCTGAGACTGGTGTGGTACTGGGAACCGCCACCGCCGACGGTACGGCAGCTTCACC
query	ACCTCTGAGACTGGTGTGGTACTGGGAACCGCCACCGCCGACGGTACAGGCAGCTTCACC
template	GCCCACTCAGCCCGCGCAGACCAATGGTCAGCCGCTACTGGCATTGGCCAGGATAAA
query	GCCCACTCAGCCCGCGCAGACCAATGGTCAGCCGCTACTGGCATTGGCCAGGATAAA
template	GCAGGCAACACTGGCATTGCCGCCGGATTTACCGCGCCGATACGCGCGTGCCGGAAGCG
query	GCAGGCAACACAGGCATTGCCGCCGGATTTACCGCGCCGATACGCGCGTGCCGGAAGCA
template	CCGATCATCACCACGTAGTGGATGATGTGGGTATTTATACCGGCCTATCGCCAACGGT
query	CCGATCATCACCACGTAGTGGATGATGTGGGTATTTATACCGGCCTATCGCCAACGGC
template	CAGGTCACTAATGACGCACAACCCACATTGAATGGTACCGCTCAGGCGGGCGCCACGGTG
query	CAGGTCACTAATGACGCACAACCCACATTGAATGGTACCGCTCAGGCGGGCGCCACGGTG
template	AGCATTTATAACAACGGGGCGTGCTCGGCACCAACACGGCGAACGCCAGCGGAACTGG
query	AGCATTTATAACAACGGGGCGTGCTCGGCACCAACACGGCGAACGCCAGCGGAACTGG
template	AGCTTTACCCCGACAGGCAATTTGACCGAAGGCAGCCACGCCTTACCAGCTACCGCAACT
query	AGCTTTACCCCGACAGGCAATTTGACCGAAGGCAGCCACGCCTTACCAGCTACCGCGACT
template	AACGCCAACGGTACAGGCAGCGTCTCCACCGCCGCGACGGTGATTGTCGATACGCTGGCG
query	AACGCCAACGGTACAGGCAGCGTCTCCACCGCCGCGACGGTGATTGTCGATACGCTGGCG
template	CCCGGTACGCCGTAGGTACGCTCAGCGCCGATGGCGGTTCACTTTCGGGACAGGCTGAG
query	CCCGGTACGCCGTAGGTACGCTCAGCGCCGATGGCGGTTCACTTTCGGGCTGGCAGAG
template	GCAAACAGCACCGTAACCGTAACGCTGGCGGGGGGCGTGACGCTACCAACACCGCCGGC
query	GCAAACAGCACCGTAACCGTACGCTGACGGGGGGCGTGACGCTACCAACACCGCTGGC
template	AGCAACGGCGCATGGTCTCTCACCTTGCCGACAAAACAAATTGAAGGTCAACTCATTAA
query	AGCAACGGCGCATGGTCTCTCACCTTGCCGACAAAACAAATTGAAGGTCAACTCATTAA
template	GTGACGGCACTGACGCTGCGGGTAACGCCTCGGCACGTTAGGCATTACCGCGCGATT
query	GTGACGGCACTGACGCTGCGGGTAACGCCTCGGCACGTTAGGCATTACCGCGCGGTT
template	CTGCCGCTGGCGGCAAGGGATAACATAACCAAGTCTTGATCTGACCTCTACCGCCGTACC
query	CTGCCGCTGGCGGCAAGGGATAACATAACCAAGTCTTGATCTGACCTCTACCGCCGTACC
template	AGCACGCAAACTATTTCGGATTACGGCCTGCTGCTGGTTGGCGCGCTTGGCAATGTCGCC
query	AGCACGCAAACTATTTCGGATTACGGCCTGCTGCTGGTTGGCGCGCTTGGCAATGTCGCC
template	TCGGTTTTGGGTAACGATACCGCTCAGGTTGAGTTCACCATTGCTGAAGGTGGTACGGGC
query	TCGGTTTTGGGTAACGATACCGCTCAGGTTGAGTTCACCATTGCTGAAGGTGGTACGGGC
template	GACGTCACCATCGATGCCGCCGCAACGGGAATCGTGCTTTCGCTGCTCAGCACTCAGGAG
query	GACGTCACCATCGATGCCGCCGCAACGGGAATCGTGCTTTCGCTGCTCAGTACTCAGGAG

template query	ATAGTGGTACAGCGCTATGACACCAGCCTCGGCACTGGACGACGATCGTCAACACCGCC ATTGTGGTACAGCGCTAGACACCAGCCTCGGCGCTGGACGACGATCGTCAACACCGCC
template query	GTGGCGACTTCGCGAATTTGCTTACCCTGACCGGGAGCGGCGTTACCCTGAACCTGAAC CTTGGCGACTTCGCGAATTTGCTTACCCTGACCGGGAGCGGCGTTACCCTGAACCTGAAC
template query	GGA CTGGGCGAAGGCCAGTACCGGGTACTCACTTATAACACCACTGCTGCTCGC ACCGGG GGCCTGGGCGAAGGCCAGTACCGGGTACTCACTTATAACACCACTGCTGCTCGC TACGGG
template query	TCATATACCAGCCTGGATGTCGATGTACACCAGACCAGCGCAGGTATTATTAGCGGGCCA TCATATACCAGCCTGGATGTCGATGTACACCAGACCAGCGCAGGTATTATTAGCGGGCCA
template query	ACCATCAGTACCGGCAACGTATGGCTGATGATACCGCGCCGACGGGCACCACGGTCACC ACCATCAGTACCGGCAACGTATGGCTGATGATACCGCGCCGACGGGCACCACGGTCACC
template query	GCCATCACCAACGCCAACGGCGTCAGTACGCCGGTCGGCGCGGGCGGCGTGGATATCCTG GCCATCACCAACGCCAACGGCGTCAGTACGCCGGTCGGCGCGGGCGGCGTGGATATCCTG
template query	GGGCAATACGGCACGCTGCACATTAATCAGGATGGCAGTTACACCTACACGCTGACTAAG GGGCAATACGGCACGCTGCACATTAATCAGGATGGCAGTTACACCTACACGCTGACTAAG
template query	CCCACGGCGGGATACGGACATAAAGAGAGCTTCACCTACACCATACCCAGAATGGCGTC CCCACGGCGGGATACGGACATAAAGAGAGCTTCACCTACACCATACCCAGAATGGCGTC
template query	GGTAGCAGCGCCGCGCAACTGGTTATTAATTTGGGTCCGCGCCTGTACCGGGCAGCGTG GGTAGCAGCGCCGCGCAACTGGTTATTAATTTGGGTCCGCGCCTGTACCGGGCAGCGTG
template query	ATAGCGACAGACAATAACGCCCTCGCTGGTCTTTGATACTCACGTTAGCTACGTCAACAAC ATAGCGACAGACAATAACGCCCTCGCTGGTCTTTGATACTCACGTTAGCTACGTCAACAAC
template query	GGCCCCTCGACACAAAGCGGCGTCACGGTATTAAGCGTCGGACTTGGTAATGTACTGAAC GGCCCCTCGACACAAAGCGGCGTCACGGTATTAAGCGTCGGACTTGGTAATGTACTGAAC
template query	GCGAATCTGCTTGATGATGACTAATCCGATCATCTTTAACGTTGAAGAAGGCGCTACG GCGAATCTGCTTGATGATGACTAATCCGATCATCTTTAACGTTGAAGAAGGCGCTACG
template query	CGAACCATGACGTTACAGGGAACCGTCGGCGGCGTCTCACTGGTTTCCACGTTTCGATCTG CGAACCATGACGTTACAGGGAACCGTCGGCGGCGTCTCACTGGTTTCCACGTTTCGATCTG
template query	TACGTTTATCGCTTCAACGATGCCATTCAACAATATGAGCAGTTCCGGGTG CAAAAGGGC TACGTTTATCGCTTCAACGATGCCATTCAACAATATGAGCAGTTCCGGGT CAAAAGGGC
template query	TGGATTAAACACCTGCTGTTAGCCGGACAGTCCAGCCGCTGACCTGACGTTGCCTGGC TGGATTAAACACCTGCTGTTAGCCGGACAGTCCAGCCGCTGACCTGACGTTGCCTGGC
template query	GGCGAATACTTGTTCTGTGCTGAATACCGCCAGCGGCATTAGCGTCCTCACTGGCTATACG GGCGAATACTTGTTCTGTGCTGAATACCGCCAGCGGCATTAGCGTCCTCACTGGCTATACG
template query	TTGGCGATTTCCAGGACCACCTATGCCGTTGACAGTATACCGCCAACACCACCGGC TTGGCGATTTCCAGGACCACCTATGCCGTTGACAGTATACCGCCAACACCACCGGC
template query	AACGTA CTGACCAATGATGTG C C C C TACGGACGCCCTCCTCACTGAAGTAAACGGCGTG AACGTA CTGACCAATGATGTG C C C TACGGACGCCCTCCTCACTGAAGTAAACGGCGTG
template query	GCGATTGCGGCACCGGCACGACGGAGGTAAATGGGCTGTATGGCTCGCTCATCATTGAC GCGATTGCGGCACCGGCACGACGGAGGTAAATGGGCTGTATGGCTCGCTCATCATTGAC
template query	GCAAGAGGCAACTATACCTACACGCTGAAGAACGGCGTCGGCGCCGACAGCATTAAACG GCAAGAGGCAACTATACCTACACGCTGAAGAACGGCGTCGGCGCCGACAGCATTAAACG
template query	CCGGACAGCTTTATCTATACGCTCAAAGCGCCAAACGGCGATACCGATACGGCCTCGCTC CCGGACAGCTTTATCTATACGCTCAAAGCGCCAAACGGCGATACCGATACGGCCTCGCTC
template query	AATATCACGCCAACCGCCAGGGCGCTGGATGCGATTAAATGATGTGACGATACCCCTAGC AATATCACGCCAACCGCCAGGGCGCTGGATGCGATTAAATGATGTGACGATACCCCTAGC
template query	GTCGCCACGCTTCAGGATACCGCTGCCTGGCTGGACTCCAGCGTCGGCAGCGCCAGTTGG GTCGCCACGCTTCAGGATACCGCTGCCTGGCTGGACTCCAGCGTCGGCAGCGCCAGTTGG
template	GGGCTACTCGGCAATCGGGCAGCGGGAGCGGCACCTTTGACGTTGCAACGGGCACCGTA

query	GGGCTACTCGGCAAAATCGGGCAGCGGGAGCGGCACCTTTTGACGTTTGCAACGGGCACCGTA
template	CTTAAAGGCGCGTCACTGGTCTTTGATGTCTCCACGCTCATTACGCTGGGCAATCTGAAT
query	CTTAAAGGCGCGTCACTGGTCTTTGATGTCTCCACGCTCATTACGCTGGGCAATCTGAAT
template	ATTAGCTGGGCCATTACAGGAGAACGGAAACCGTCATACGCAACGGAACCGTCCCGTGGCG
query	ATTAGCTGGGCCATTACAGGAGAACGGGACCGTCATACGCAACGGAACCGTCCCGTGGCG
template	AATATCACGCTGGGCAGCGCAGCGGTGACCGTCAACCTGAGCGGCCTGGAGCTGGATGCC
query	AATATCACGCTGGGCAGCGCAGCGGTGACCGTCAACCTGAGCGGCCTGGAGCTGGATGCC
template	GGAACGTACACGCTTAACCTTTACCGGCACCAATACCTGGCCGGGGCGGCGACAATCACG
query	GGAACGTACACGCTTAACCTTTACCGGCACCAATACCTGGCCGGGGCGGCGACATCACG
template	CCACGCGTCATCGGCACCACCGTCGATCTGGATAATTTTGAAACGTCCGGAACGCATACC
query	CCACGCGTCATCGGCACCACCGTCGATCTGGATAATTTTGAAACGTCCGGAACGCATACC
template	GTTCTCGGCAATATTTTGACGGCAGCGACGCGCGGGGGCGATGGATCAGCTTAATACG
query	GTTCTCGGCAATATTTTGACGGCAGCGACGCGCGGGGGCGATGGATCAGCTTAATACG
template	GTGAATACTCGCTGAGCATTAGCGGGTATAACGGCAGCGCCGCCACGCTGGACGCCGCG
query	GTGAATACCGCTGAGCATTAGCGGGTATAACGGCAGCGCCGCCACGCTGGACGCCGCG
template	GCGAATACCACCAGCGCCACGATTACGGGACATTACGGCACATTGCAAATTAACCTCGAT
query	GCGAATACCACCAGCGCCACGATTACGGGACATTACGGCACATTGCAAATTAACCTTGAT
template	GGCGCTTACACCTACACCTGAATAATGGCGTCGCGATGTCGTCCATCACCAGTAAAGAG
query	GGCGCTTACACCTACACCTGAATAATGGCGTCGCGATGTCGTCCATCACCAGTAAAGAG
template	GTCTTTACCTATCAACTGGATGACAAGATAGGTCATACGGATAGCGCCACATTGACCATT
query	GTCTTTACCTATCAACTGGATGACAAGATGGGTCATACGGATAGCGCCACATTGACCATT
template	GATATGGCGCCCAAATCGTCAGTACCAACCAAACGATGTTCTATCGGCTCCGCCTAT
query	GATATGGCGCCCAAATCGTCAGTACCAACCAAACGATGTTCTATCGGCTCCGCCTAT
template	GGCGATACGCTGATTTACACCTGTTAAACGGCGCGGACGCGACCGGCGGCAACGGCGCC
query	GGCGATACGCTGATTTACACCTGTTAAACGGCGCGGACGCGACCGGCGGCAACGGCGTC
template	GATCGCTGGCAAAACTTCTCCACCGCGCAGGGCGACAAGATCGATATCCACGAACGTCTG
query	GATCGCTGGCAAAACTTCTCCACCGCGCAGGGCGACAAGATCGATATCCACGAACGTCTG
template	ACCGGCTGGGATCACCAGGCGGCGACGCTAGGTAACCTTTGTTCAGGTTCATACCAGCGGC
query	ACCGGCTGGGATCACCAGGCGGCGACGCTAGGTAACCTTTGTTCAGGTTCATACCAGCGGC
template	GCCAATACGGTGATATCCGTGATCGCGACGGCGCCGGCAGCGCGTTTAAATCAACTGAC
query	GCCAATACGGTGATATCCGTGATCGCGACGGCACCGGCAGCGCGTTTAAATCAACCGAC
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template	ATAACCGGCGGTTGAT-AAAAAGCCCCGAACGCCACGACGTTTCGGGGCAACAAGCGGTGA
query	ATAACCAAGCGGTTGATAAAAAAGCCCCGAACGCCACGACGTTTCGGGGCAACAAGCGGTGA
template	TATTTAAAAGGGATAAACTATGGGAAGAGTCGCGCCTGTCGCCATCGTACTGGCATTGTC
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template	TTTGTTTCATCACCAGCCCCGGGGCGCAGAAGCGCTGCCAATGATTACATCCGAAGGATT
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template	AGCAACGGACCAGATGCTTCCTTCGCTGGATGGCTCCGCCGCTGAGTTGCCGCTCAGCGC
query	AGCAACGGACCAGATGCTTCCTTCGCTGGATGGCTCCGCCGCTGAGTTGCCGCTCAGCGC
template	CGCCGCGCCGGGCAACCTGACGCTCAATGACGCGGTCAATCGCGCCGTTAACTGGCATCC
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template	TTCTATTTCGGAAGCGCTCGGCAAACCTGCTCGCACAGAATGAACAAATAGAGGTCGCCAA
query	TTCTATTTCGGAAGCCATCGGCAAACCTGCTCGCACAGAATGAACAAATAGAGGTCGCCAA
template	ATCGAAATATTATCCGCAAGTCAGCGCTGGCGTGAACAATGGGTACAGCAATACCTACAC
query	ATCGAAATATTATCCGCAAGTCAGCGCTGGCGTGAACAATGGGTACAGCAATACCTACAC

template	CGATCACGGGTATAGCCCTCGCTGGTGCTGTCGGTATCGCAAATGCTTTATGACTTCGG
query	CGATCACGGGTATAGCCCTCGCTAGTGCTGTCGGTATCGCAAATGCTTTATGACTTCGG
template	CAAAGTGGCAAGCCAGGTTTCGCGCCGAAACCGCAGGCGCAGCAGCAACAGGCCAACGT
query	CAAAGTGGCAAGCCAGGTTTCGCGCCGAAACCGCAGGCGCAGCAGCAACAGGCCAATGT
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query	GTTGCTCAGTATTGATACCGTCGCGCACGAAACCGCCAACGCCATTGTACAAACGCAGAG
template	CTGGCAGCAAATGGTAGAAGCGGCGGAAGAACAGCTCGTCGCGCTGGACAGCATCGGTAA
query	CTGGCAGCAAATGGTAGAAGCGGCGGAAGAACAGCTCGTCGCGCTGGACAGCATCGGTAA
template	ACTTATCCGGCAGCGCAGCGATGAAGGCGCTACGTCGCTATCTGACGTGGTGCAAACCGA
query	ACTTATCCGGCAGCGCAGCGATGAAGGCGCTACGTCGCTCTCTGACGTGGTGCAAACCGA
template	AGCCAGAATCGAATCCGCCGCTCGCAACTGGCGCAGTATCAGGCCAATCTCGACAGTGC
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template	GAAAGCCTCACTGATGAGCTGGCTGGGCTGGAATTCGCTTAACGGCATCAATAATGACTT
query	GAAAGCCTCACTGATGAGCTGGCTGGGCTGGAATTCGCTTAACGGCATCAATAATGACTT
template	CCCGGCGAAACTCGCTCGCAGCTGTGAGACAGCGACCCCGAAGATCGCTGGTGCCCGC
query	CCCGGCGAAACTTGCTCGCAGCTGTGAGACGGCGACTCCCGACGATCGACTGGTGCCCGC
template	GGTACTGGCCGCTGGGCGCAGGCCAACGTTGCGCGGGCGAATCTGGACTATGCCAGTGC
query	GGTACTGGCCGCTGGGCGCAGGCCAACGTTGCGCGGGCGAATCTGGACTATGCCAGCGC
template	GCAAATGACGCCGACGATTTTCGCTCGAACCTTCTGTACAACATTATCTTAATGACAAATA
query	GCAAATGACGCCGACGATTTTCGCTCGAACCTTCTGTACAACATTATCTTAATGATAAATA
template	TCCAGTCATGAAGTGCTGGATAAAACCCAGTATTCCACCTGGGTAAAAGTTGAGATGCC
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template	GCTTTATCAGGGCGGAGGGCTGACTGCCCGACGCAACGCCAGCCATGCGGTAGACGC
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template	GGCTCAGTCGACCATTAGCGCACCCGGCTTGATGTCCGCCAGAACTGATGGAGGCGCG
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template	CAGCCAGGCAATGAGTCTTGCCAGCGCGTTACAAATCCTTCGTCGGCAACAGCAGCTTAG
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query	CGAACGTACGCGCGAACTGTATCAGCAGCAATACCTTGACCTCGGTTCCCGCCGCTGCT
template	CGACGTGCTTAATGCGGAGCAGGAAGGTTTACCAGGCGCGTTTTGCCGAACGCAAAACGGA
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template	CATGTCGCCGGTCATTATCGCGTTGCCTGTTCTCCCGTTCAATTAGGCCAACGCCCCG
query	TATGTCGCCGGTCATTATCGCGTTGCCTGTTCTCCCGTTCAATTAGGCCAACGCCCCG
template	TGGTTTAGGGGTAAAAGCAGAACGACCGCCTTAACGCAGCTCGCGCGCAGGCGGGTTTA
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template	TCCTTTCATGCGCCGGACATAGACAAAACGGCATTAGTCAGTGGCATTGCCGTTGGTT
query	TCCTTTCATGCGCCGGACATAGACAAAACGGCATTAGTCAGTGGCATTGCCGTTGGTT
template	GTCGAGCTCCGGGACGGGCAGTTATTGGTCATCGAACATGTTAATGGCGAAGATGCGGTA
query	GTCGAGCTCCGGGACGGGCAGTTATTGGTCATCGAACATGTTAATGGCGAAGAGGCGGTA

template	GACGTTTTTGTGATTGAAGAAGAGGGTCAGCGTAACCGCCTGACGCTCAGCGAGTTATTG
query	GACGTTTTTGTGATTGAAGAAGAGGGTCAGCGTAACCGCCTGACGCTCAGCGAGTTATTG
template	CCGGAGATCCTCTATGTTGCCGCGCTACGCCGCTATCGGCGCTCAAGGATAGCCGCGTC
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template	GACCGCTATATCTCCCGCTTTAAACCCGACTGGATGCGCGAGCTGGTTCTGCAGGATATT
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template	CGCCCTTATTTACCGTAATGGTCGCCGCTTTCTGATTAACGTGCTGTCTCTGGCCGGG
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template	TACGTGCTCTCCTTCGGCGTGCTGGTAGCGGTGCTGTTTCGGTTTTCTGCTGCGTGAAGCG
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template	CGTACGCACATTATGGACGTGCTCGGTAACGCGCCGATATGCGCATTTCGATCGGGTA
query	CGTACGCACATTATGGACGTGCTCGGTAACGCGCCGATATGCGCATTTCGATCGGGTA
template	TTCGGTCATGCGTTAAGGCTGCGCAACAGCGCTATCCCCGTTCCACCGCAGTTTTATC
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template	ATTGTCGATCTGCCTTTCTTTTCTGTTTATGATAGTCTTGGCGATTATTGCCCCACCG
query	ATTGTCGATCTGCCTTTCTTTTCTGTTTATGATAGTCTTGGCGATTATTGCCCCACCG
template	CTGGCATGGATAGCGCCCGTGCGGCTCTGCTGATGATCCTGCCGGGCGTCGACTGCAA
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template	CTCACGCAAAGGCTTATCAGTTGGGGGATGTCGGTACAAAGTCTGGTGTATGCCGAGTG
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template	ATTATGTTTCGGCGCGCCGATGGTCATTGAAGGCAGTATGACTACCGGCGCCGTGGTCGCC
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template	GCGTCGATGCTCGGCTCACGGATGATCGCGCCAATGGCTAACCTGTGCGGCGTGCTGGCG
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template	CGCTGGCAGCAGGTGAAAGCGGCGAAGATGGGTCTCGACAACATTATGCAACTGCCCACT
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template	ACACTTTTACAGGCGATGGCGGGCGGCCTGGAGATGATTACGGGAGATGCCCGGCTTGAT
query	ACACTTTTACAGGCGATGGCGGGCGGCCTGGAGATGATTACGGGAGATGCCCGGCTTGAT
template	AATCTCAGCTTGTGCGACATCGATATGGCGGATTTACGCCGCAACATCGGCTTTCTTAGC
query	AATCTCAGCTTGTGCGACATCGATATGGCGGATTTACGCCGCAACATCGGCTTTCTTAGC
template	CAGAACGCGCGGCTTTTCTTCGGCACCCCTACGAGAGAACCTGACGCTCGGCGCGCCGAC

query	CAGAACGCGCGCTTTTCTTCGGCACCTACGAGAGAACCTGACGCTCGGCGCGCCGCAC
template	GCCAACGATGAACAGATTTTTGACGCGCTCGAAGTCAGCGCGCGCGCTTCTCGTCAGG
query	GCCAACGATGAACAGATTTTTGACGCGCTCGAAGTCAGCGCGCGCGCTTCTCGTCAGG
template	CGGCTGGCAAAAGGGTTGGATCATCCATTATGGAGGGTGGTAACGGCCTGTCCGGCGGG
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template	CAGCGTCAGTCCCTGTTGCTGGCGAGAATGCTGCTGCGCTCCCCAATATTGTGCTACTT
query	CAGCGTCAGTCCCTGTTGCTGGCGAGAATGCTGCTGCGCTCCCCAATATTGTGCTACTT
template	GACGAACCCAGCGCCTCGCTGGACGAGCATACGGAACGAGAGTTTATTACGCGTTACAT
query	GACGAACCCAGCGCCTCGCTGGACGAGCATACGGAACGAGAGTTTATTACGCGTTACAT
template	CAGTGGCTTGGCAACCGTACCCTGGTCGTCGCAACGCACCGGGTACCAATACTGGAGCTG
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template	GTTGAGCGTGTGCTTGCTGCTGAAAGAAGGACAACCTGGTGATGGACGCGCCAAAAGCGCAG
query	GTTGAGCGTGTGCTTGCTGCTGAAAGAAGGACAACCTGGTGATGGATGCGCCAAAAGCGCAG
template	GCGCTTAACGCGGATCGGATGCAAAGTCACCGTCGGGAGTGAAGAAAAATGAAAAATCAATCA
query	GCGCTTAACGCGGATCGGATGCAAAGTCACCGTCGGGAGTGAAGAAAAATGAAAAATCAATCA
template	GCATGATGCCGCGATGGACGATTTTCGATATTACGCGTGAACGGCGTTTTCCGGCGCGGG
query	GCATGATGCCGCGATGGACGATTTTCGATATTACGCGTGAACGGCGTTTTCCGGCGCGGG
template	TCGTATTGTTCTGATCTGCTCACTGTTATTTCTCATTCTCGGCATCTGGGCGTGGTTTGG
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template	CCGACTGGATGAGGTTTCCACCGGCAACGGGAAAGTAATCCCCAGTTCACGCGAACAGGT
query	CCGACTGGATGAGGTTTCCACCGGCAACGGGAAAGTGATCCCCAGTTCACGCGAACAGGT
template	TCTGCAGTCGCTGGATGGCGGCATTCTGGCGCAGTTGACGGTGCGGGAAGGCGACAGAGT
query	TCTGCAGTCGCTGGATGGCGGCATTCTGGCGCAGTTGACGGTGCGGGAAGGCGACAGAGT
template	TCAGGCTAACCAGATTGTCGCCCCAGCTTGATCCGACGCGTCTGGCGTCCAATGTTGGTGA
query	TCAGGCTAACCAGATTGTCGCCCCAGCTTGATCCGACGCGTCTGGCGTCCAATGTTGGTGA
template	AAGTGCGGCAAAATATCGCGCTTCACTCGCCTCCAGCGCACGGTTAACCGCGGAAGTCAG
query	AAGTGCGGCAAAATATCGCGCTTCACTCGCCTCCAGCGCACGGTTAACCGCGGAAGTCAG
template	CGACTTACCTCTCGCCTTCCCCGCTGAGCTGAACGGCTGGCCGGATCTGATTGCCGCGAGA
query	CGACTTACCTCTCGCCTTCCCCGCTGAGCTGAACGGCTGGCCGGATCTGATTGCCGCGAGA
template	GACGCGTCTCTATAAAAGCCGCGCGCGCAGCTGGCCGATACCGAAGCCGAGCTACGGGA
query	GACGCGTCTCTATAAAAGCCGCGCGCGCAGCTGGCCGATACCGAAGCCGAGCTACGGGA
template	TGCGCTGGCGTCGGTTAATAAAGAGCTGACCATTACCCAGCGGCTGGAGAAAAGCGGCGC
query	TGCGCTGGCGTCGGTTAATAAAGAGCTGACCATTACCCAGCGGCTGGAGAAAAGCGGCGC
template	GGCCAGTCATGTTGAAGTGCTACGCCTGCAACGACAAAAAAGCGATTTAGGCTTAAAAAT
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template	TACCGATCTGCGCTCACAATATTATGTGCAGGCACGCGAAGCGTTATCAAAAGCGAACGC
query	TACCGATCTGCGCTCACAATATTATGTGCAGGCACGCGAAGCGTTATCAAAAGCGAACGC
template	TGAGGTCGATATGCTCTCCGCCATTTTAAAAGGACGCGAGGATCCGTACCCCGCCTTAC
query	TGAGGTCGATATGCTCTCCGCCATTTTAAAAGGACGCGAGGATCCGTACCCCGCCTTAC
template	CATACGTTCCGCCGGTACGCGGATTGTTAAAAATATCCAGGTCACGACGATTGGCGGCGT
query	CATACGTTCCGCCGGTACGCGGATTGTTAAAAATATCCAGGTCACGACGATTGGCGGCGT
template	GATCCCGCTAACGGTGAGATGATGGAGATAGTGCCGGTAGACGATCGTCTGTTGATTGA
query	GATCCCGCTAACGGTGAGATGATGGAGATAGTGCCGGTAGACGATCGTCTGTTGATTGA
template	AACCCGCCTTTTCGCCGCGTGATATCGCCTTTATTTCATCCCGCCAACGCGCATTGGTTAA
query	AACCCGCCTTTTCGCCGCGTGATATCGCCTTTATTTCATCCCGCCAACGCGCATTGGTTAA
template	AATTACTGCTTACGATTACGCCATTTACGGCGGGCTTGACGGCGTGGTGGAGACCATTTTC
query	AATTACTGCTTACGATTACGCCATTTACGGCGGGCTTGACGGCGTGGTGGAGACCATTTTC



template	ACCGGATACCATTTCAGGATAAAGTGAAACCGGAAATTTTCTACTATCGCGT6TTTATCCG
query	ACCGGATACCATTTCAGGATAAAGTGAAACCGGAAATTTTCTACTATCGCGTATTATCCG
template	CACCCACCAGGACTATCTACAAAATAAATCAGGACGCCGTTTTTCGATTGTTCCAGGCAT
query	CACCCACCAGGACTATCTACAAAATAAATCAGGACGCCGTTTTTCGATTGTTCCAGGCAT
template	GATCGCCACGGTGGATATCAAAACCGGTGAAAAAACCATTTGTCGACTATTTAATCAAACC
query	GATCGCCACGGTAGATATCAAAACCGGTGAAAAAACCATTTGTCGACTATTTAATCAAACC
template	GTTTAATCGCGCGAAAGAAGCGCTGCGCGAGCGGTAA
query	GTTTAATCGCGCGAAAGAAGCGCTGCGCGAGCGGTAA

Input Files: 69M\_cons\_1.fasta

Results as textResults tsvHits in genome seqsSPI sequences

Support

Scientific problems

Technical problems

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