

Supplementary Table S1. Recombinant Humanized Collagen Information

Type	Name	Molecular weight	Amino acid sequence
rhCOLI	ReCol1-TTC01-02SC	110~120 kDa	<p>QLSYGYDEKSTGGISVPGPM</p> <p>GPSGPRGLPGPPGAPGPQGF</p> <p>QGPPGEPGEPGASGPMGPRG</p> <p>PPGPPGKNGDDGEAGKPGRP</p> <p>GERGPPGPQGARGLPGTAGL</p> <p>PGMKGHRGFSGLDGA KG DAG</p> <p>PAGPKGEPGSPGENGAPGQM</p> <p>GPRGLPGERGRPGAPGPAGA</p> <p>RGNDGATGAAGPPGPTGPAG</p> <p>PPGFPGAVGAKGEAGPQGPR</p> <p>GSEGPQGVRGEPGPPGPAGA</p> <p>AGPAGNPGADGQPGAKGANG</p> <p>APGIAGAPGFPGARGPSGPQ</p> <p>GPGGPPGPKGNSGEPGAPGS</p> <p>KGDTGAKGEPGPVGVQGPPG</p> <p>PAGEEGKRGARGEPTGLP</p> <p>GPPGERGGPGSRGFP GADGV</p> <p>AGPKGPAGERGSPGAPGPKG</p> <p>SPGEAGRPGEAGLP GAKGLT</p> <p>GSPGSPGPDGKTGPPGPAGQ</p> <p>DGRPGPPGPPGARGQAGVMG</p> <p>FPGPKGAAGEPGKAGERGVP</p> <p>GPPGAVGPAGKDGEAGAQQP</p> <p>PGPAGPAGERGEQGPAGSPG</p> <p>FQGLPGPAGPPGEAGKPGEQ</p> <p>GVPGDLGAPGSGARGERGF</p> <p>PERGVQGPPGPAGPRGANG</p> <p>APGNDGAKGDAGAPGAPGSQ</p> <p>GAPGLQGMPGERGAAGLPGP</p> <p>KGDRGDAGPKGADGSPGKDG</p> <p>VRGLTGPIGPPGPAGAPGDK</p> <p>GESGPSGPAGPTGARGAPGD</p> <p>RGEPGPPGPAGFAGPPGADG</p> <p>QPGAKGEPGDAGAKGDAGPP</p> <p>GPAGPAGPPGPIGNVGAPGA</p> <p>KGARGSAGPPGATGFPGAAG</p> <p>RVGPPGPSGNAGPPGPPGPA</p> <p>GKEGGKGPRGETGPAGRPGE</p> <p>VGPPGPPGPAGEKGS PGADG</p> <p>PAGAPGTPGPQGIAGQRGVV</p> <p>GLPGQRGERGFPGLPGPSGE</p>

rhCOLIII	ReCol3-TTA01-02PC	10~55 kDa	PGKQGPSGASGERGPPGPM
			GPPGLAGPPGESGREGAPGA
			EGSPGRDGSPGAKGDRGETG
			PAGPPGAPGAPGAPGPVGPA
			GKSGDRGETGPAGPAGVGP
			VGARGPAGPQGPRGDKGETG
			EQGDRGIKGHRGFSGLQGPP
			GPPGSPGEQGPSGASGPAGP
			RGPPGSAGAPGKDGLNGLPG
			PIGPPGPRGRTGDAGPVGPP
			GPPGPPGPPGPPSAGFDFS
			LPQPPQEKAHDGGRYYRA
			AGNTGAPGSPGVSGPKGDAG
			QPGEKGSPGAQGPPGAPGPL
			GIAGITGARGLAGPPGMPGP
			RGSPGPQGVKGESGKPGANG
			LSGERGPPGPQGLPGLAGTA
			GEPGRDGNPGSDGLPGRDGS
			PGGKGDRGENGSPGAPGAPG
			HPGPPGPVGPAGKSGDRGES
			GPAGPAGAPGPAGSRGAPGP
			QGPRGDKGETGERGAAGIKG
			HRGFPGNPGAPGSPGPAGQQ
			GAIGSPGPAEFTAGNTGAPG
			SPGVSGPKGDAGQPGEKGSP
			GAQGPPGAPGPLGIAGITGA
			RGLAGPPGMPGPRGSPGPQG
			VKGESGKPGANGLSGERGPP
			GPQGLPGLAGTAGEPGRDGN
			PGSDGLPGRDGSPGGKGDRG
			ENGSPGAPGAPGHPGPPGPV
			GPAGKSGDRGESGPAGPAGA
			GPAGSRGAPGPQGPRGDKG
			ETGERGAAGIKGHRGFPGNP
			GAPGSPGPAGQQGAIGSPGP
			ADHHHHHHT LARF
rhCOL XVII	TTB01-02SC	10~23.8 kDa	YVWSHPQFEKGSPGPKGDMG
			SPGPKGDRGFPGTPGIPGPL
			GHPGPQGPKGQKGSVGDPG
			EGPGEKGERGAAGEPGPHGP
			PGVPGSVGPKCSSGSPGPQG
			PPGPVGLQGLRGEVGLPGVK
			GDKGPMGPPGPKGDQGEKGP
			PGPPGPPGPKGDQGPPGPRG

HQGEQGLPGF SGPPGPPGPQ
GPKGDKGDPGVPGALGIPGP
PGQKGEMGTPGPKGDRGPAG
PPGHPGPPGPRGHKGEKGDK
GDQH HHHHHH
