

Name: XaC1**Conformation:** linear**Enzymes:** EcoRI, EcoRV, NdeI**Noncutters:**

Name	Sequence	Site Length	Overhang	Frequency	Cut Positions
EcoRV	GATATC	6	blunt	27	5062, 5080, 18506, 18800, 19760, 20228, 25195, 26593, 30188, 46366, 70650, 106976, 164169, 167306, 169111, 214413, 227544, 237933, 248954, 276996, 283085, 307177, 314479, 332609, 335230, 346892, 348798
EcoRI	GAATTC	6	five_prime	140	34650, 35361, 35907, 37586, 41330, 45461, 45763, 46458, 49914, 51452, 52621, 53443, 53473, 53919, 61826, 62888, 67950, 69226, 71310, 73384, 74711, 74980, 75867, 76218, 77678, 79156, 80241, 81299, 81527, 82978, 83323, 92478, 106734, 107963, 108319, 108757, 114943, 117798, 117963, 118286, 119377, 119913, 122657, 123361, 125097, 125409, 125985, 127832, 129180, 133198, 134083, 134280, 135980, 138617, 149187, 149382, 151780, 161858, 166744, 176871, 178190, 179280, 179739, 180221, 187376, 187512, 188463, 189686, 190332, 190535, 191431, 193118, 193292, 195741, 197132, 203303, 208057, 208396, 209653, 209744, 211217, 217967, 225300, 226152, 230601, 232763, 235107, 240908, 241063, 243694, 244587, 244599, 244704, 246968, 250398, 250982, 255155, 255530, 255555, 255712, 256638, 261549, 262998, 264765, 269447, 269669, 270917, 272307, 274225, 279081, 281757, 284810, 285802, 288349, 289070, 289363, 293516, 295162, 303541, 303751, 303861, 304434, 307121, 307193, 311303, 318669, 320775, 322297, 325841, 326766, 326951, 327879, 330406, 331598, 332007, 333392, 336345, 338801, 339377, 340651
NdeI	CATATG	6	five_prime	162	1679, 6786, 18572, 19138, 21660, 24177, 27176, 28754, 28775, 30673, 30955, 33258, 33896, 38922, 39162, 42597, 42784, 44821, 48362, 49628, 50231, 52551, 53609, 55484, 56435, 59611, 60150, 61094, 61796, 63342, 64394, 69838, 70788, 71327, 72657, 72861, 73416, 80664, 81898, 85886, 87412, 89190, 89982, 93084, 95386, 97130, 99904, 100379, 103380, 106463, 106818, 109597, 110277, 110940, 111650, 114391, 114913, 115015, 115384, 118219, 118849, 119020, 120368, 123231, 125336, 128211, 128903, 129239, 130079, 132177, 136015, 137661, 139513, 139630, 146741, 153045, 153800, 156388, 163361, 163687, 164020, 168336, 168710, 171412, 178385, 179933, 180784, 182128, 191333, 192266, 195602, 195638, 195647, 198646, 199384, 201341, 202043, 203845, 208104, 208797, 208920, 209827, 211385, 213917, 214821, 225434, 228064, 229017,

Name	Sequence	Site Length	Overhang	Frequency	Cut Positions
					238536, 238707, 241887, 241985, 242126, 247002, 247094, 251146, 252235, 261800, 262541, 264073, 268314, 268386, 271832, 271922, 272600, 274286, 277446, 277812, 279945, 281749, 282272, 282437, 283520, 286009, 287685, 287712, 288519, 291680, 295198, 296007, 296543, 300117, 300837, 301821, 302821, 303623, 303931, 312777, 312837, 314107, 315087, 318423, 319511, 320067, 324287, 335065, 336443, 337480, 337570, 337810, 338289, 342982