

Table SI. Sequences of self-assembly peptides.

A, Peptide sequences of self-assembly peptides			
First author/s, year	Peptides	Sequence (5'-3')	(Refs.)
Oloketuyi <i>et al</i> , 2021	CRPNb	AEVQLQASGGGLVQAGGSLRLSCAASRRPSSFKVMGWYRQAPGKQRELVARITSGGSTDY ADSVKGRFTISRDNAKNTVYLQMNSLEPEDTAVYYCNAYRWGRDNWGQGTQVTVSS	(31)
Present study	L1	APKADNKGGGGS	-
Present study	L2	APKADNKEFGGGGS	-
Mandecki <i>et al</i> , 1991	Alkaline phosphatase	TPEMPVLENRAAQGDITAPGGARRLTGDQTAALRDSLSDKPAKNIILLIGDGMGDSEITAAR NYAEGAGGFFKGIDALPLTGQYTHYALNKKTKGPDYVTSSAASATAWSTGVKTYNGALGV DIHEKDHP TILEMAKAAGLATGNVSTAELQDATPAALVAHVTSRKCYGPSATSEKCPGNAL EKGGKGSITEQLLNARADVTLGGGAKTFAETATAGEWQGKTLREQAQARGYQLVSDAAS LNSVTEANQQKPLLGLFADGNMPVRWLGP KATYHGNI DKPAVTCTPNPQRNDSVP TLAQM TDKAIELLSKNEKGFFLQVEGASIDKQDHAANPCGQIGETVDLDEAVQRALEFAKKEGNTL VIVTADHAHASQIVAPDTKAPGLTQALNTKDGAVMVMSYGNSEEDSQEHTGSQLRIAAYG PHAANVVGLTDQTDLFYTMKAALGLK	(32)
	His	HHHHHH	
Zhang and Mackenzie, 2012	Verotoxin	TPDCVTGKVEYTKYNDEDFTFTVKVGDKELFTNRANLQSLLSAQITGMTVTIKTNACHNG GGFSEVIFRAPK	(35)
Mayr <i>et al</i> , 1996	Right-handed coiled coil	IINETADDIVYRLTVIIDDRYESLKNLITLRADRLEMIINDNVSTILASIAPKADNKEF	(36)
Su <i>et al</i> , 2022	C4-binding protein	ETPEGCEQVLTGKRLMQCLPNPEDVKMALEVYKLSLEIEQLELQRDSARQSTLDKELAPK ADNKEF	(17)
B, DNA sequences of intended peptides			
First author/s, year	Peptides	Sequence (5'-3')	(Refs.)
Oloketuyi <i>et al</i> , 2021	CRPNb	AGAAGAAACAGTCACCTGCGTGCCCTGGCCCCAGTTATCACGACCCCAACGATAAGCG TTGCAATAATAAACAGCGGTATCTTCCGGTTCCAGGGAGTTCATCTGCAGGTACACGGT GTTTTTCGCGTTGTACAGAGAGATGGTGAAGCGGCCTTTAACGCTATCTGCGTAATCGG TGCTACCACCAGAGGTGATACGAGCAACCAAGTTCACGCTGTTTACCCGGCGCCTGACG GTACCAACCCATAACTTTAAAAGAGGACGGGCGACGAGAAGCCGCGCAAGACAGACG	(31)

		CAGAGAACCACCTGCCTGCACCAGGCCACCGCCGCTCGCCTGCAGCTGAACTTCAGC	
Present study	L1	GGAACCGCCACCGCCTTTGTTGTCCGCTTTCGGTGC	-
Present study	L2	GCTACCGCCGCCACCgAATTCTTTGTTATCTGCTTTCGGCGC	-
Mandecki <i>et al</i> , 1991	Alkaline phosphatase	caccagaaatgcctgttctggaaaacgggctgctcaggcgatattactgcacccggcggtgcacgccgtttaacgggtgatcagactgccg ctctgcgtgattctcttagcgataaacctgcaaaaaataatttttgctgattggcgatgggatggggactcggaattactgccgcacgtaattat gccgaagggtgcggcggtttttaaggfataagatgccttaccgcttaccgggcaatacactcactatgcgctgaataaaaaaacggcaaac cggactacgtcaccTCctcggctgcatcagcaaccgcctggcaaccgggtgtcaaacctataaacggcgcgctggcgctcgatattcacgaa aaagatcacccaacgattctggaaatggcaaaagccgcaggtctggcgaccggtaacgtttctaccgcagagttgcaggatgccacgcccgc tgcgctggtggcacatgtgacctgcgcaaatgtacggtccgagcgcgaccagtgaataatgtccgggtaacgctctggaaaaaggcgga aaaggatcgattaccgaacagctgctaacgctcgtgccgacgttacgcttggcgcgcgcaaaaacctttgctgaaacggcaaccgctggt gaatggcagggaaaaacgctcgtgaacaggcacaggcgctggttatcagttggtgagcgatgctgcctcactgaatagtgtgacggaagc gaatcagcaaaaacccctgcttggcctgttggctgacggcaatatgccagtgcgctggctaggaccgaaagcaacgtaccatggcaatatcgat aagccccagtcacctgtacgcaaatccgcaacgtaatacaggtgtaccaacctggcgcatgaccgacaaagccattgaattgtgagt aaaaatgagaaaggcttttctgcaagttgaaggtgcgtcaatcgataaacaggatcatgctgcgaatccttggggcaaattggcgagacggt cgatctcgatgaagccgtacaacgggcgtggagttcgctaaaaaggagggtaacacgctggtcatagtcaccgctgatcacgccacgccca gccagattgttgcgcggataccaaaagctccgggctcaccagggcgctaaataccaaagatggcgagtgatggtgatgagttacgggaac tccgaaggaggtcacagaacataccggcagtcagttgcgtattgcggcgatggcccgcatgccgcaatgttgggactgaccgaccag accgatctctctacaccatgaaagccgctctggggctgaaaggaaagtggtagtgggt	(32)
	His	TTAATGATGATGATGATGATG	
Zhang and Mackenzie, 2012	Verotoxin	ACGGAAAATAACTTCCGAAAAGCCGCCACCGTTATGACACGCGTTGGTTTTAATGGTCA CGGTCATGCCGGTGATCTGAGCGCTCAGCAGCAGAGACTGCAGGTTTCGCACGGTTGGT AAACAGTTCTTTATCGCCAACTTTCACGGTGAAGGTATCTTCATCGTTGTATTTAGTGTAT TCAACTTTACCCGTCACGCAATCCGGGGT	(35)
Mayr <i>et al</i> , 1996	Right-handed coiled coil	GATAGACGCCAGGATGGTAGAAACGTTATCGTTGATGATCATTTCCAGACGATCCGCAC GCAGGGTGATCAGGTTTTTCAGAGATTCAACGATCATCGATGATAACGGTCAGACGAT AAACGATATCATCAGCGGTTTCGTTGATAAT	(36)
Su <i>et al</i> , 2022	C4-binding protein	CAGTTCTTTATCCAGGGTAGACTGACGCGCGCTATCACGCTGCAGTTCCAGCTGCTCGA TCTCCAGGCTCAGTTTGTAACTTCCAGCGCCATTTTAACATCCTCCGGGTTCGGCAGA CACTGCATCAGACGTTTGCCGGTCAGAACCTGTTTCGACGCTTCCGGGGTTTC	(17)

CRPNb, C-reactive peptide nanobody.