

Table S1 Peptides identified in Fr-1-1 using the NCBI database of taxonomy of *Anguilla*.

Protein number	Accession number ^a	Description	Peptide sequence ^b	-10lgP	Mass	Reten tion time (min)	XIC rea	Start	End
1	BAP63926.1	type I collagen proa3 chain [<i>Anguilla japonica</i>]	ApGKDGDVGAp GApGPA	18.14	1480.68	19.2	1.6E+08	590	606
1	BAP63926.1	type I collagen proa3 chain [<i>Anguilla japonica</i>]	DGmnGLpGPIGp PGPR	26.73	1579.73	31.7	1.4E+08	1134	1149
1	BAP63926.1	type I collagen proa3 chain [<i>Anguilla japonica</i>]	DGmnGLpGPIGP pGPR	28.6	1579.73	30.6	1.1E+08	1134	1149
1	BAP63926.1	type I collagen proa3 chain [<i>Anguilla japonica</i>]	GLpGQDGRpG	17.25	984.46	17.8	6.2E+07	538	547
1	BAP63926.1	type I collagen proa3 chain [<i>Anguilla japonica</i>]	GLpGQDGRpGA pGPA	18.36	1393.66	21.3	5.4E+07	538	552
1	BAP63926.1	type I collagen proa3 chain [<i>Anguilla japonica</i>]	GFpGADGAGGP K	29.93	1045.48	21.9	4.5E+07	475	486
1	BAP63926.1	type I collagen proa3 chain [<i>Anguilla japonica</i>]	LpGQDGRpGAp GPA	23.88	1336.64	19.6	3.6E+07	539	552
1	BAP63926.1	type I collagen proa3 chain [<i>Anguilla japonica</i>]	GEpGEpGASGP mGPR	25.72	1442.61	18.3	3.1E+07	187	201
1	BAP63926.1	type I collagen proa3 chain [<i>Anguilla japonica</i>]	AGPpGPpGPGG K	24	1019.5	17.2	2.5E+07	873	884

1	BAP63926.1	type proa3	I	collagen chain	GADGGPGKDG L	21.58	942.44	21.2	2.5E+07	733	743
					[<i>Anguilla japonica</i>]						
1	BAP63926.1	type proa3	I	collagen chain	GPAGPpGKnGD DGE	18.11	1283.53	16.4	2.4E+07	202	215
					[<i>Anguilla japonica</i>]						
1	BAP63926.1	type proa3	I	collagen chain	GATGEAGKPGE GGPA	18.02	1254.58	17.7	2.1E+07	631	645
					[<i>Anguilla japonica</i>]						
1	BAP63926.1	type proa3	I	collagen chain	GLpGQDGRpGA p	23.16	1168.55	18.8	2.0E+07	538	549
					[<i>Anguilla japonica</i>]						
1	BAP63926.1	type proa3	I	collagen chain	FpGADGAGGPK	28.06	988.46	20.9	1.9E+07	476	486
					[<i>Anguilla japonica</i>]						
1	BAP63926.1	type proa3	I	collagen chain	eGSpGHDGApG RDGAAGPK	33.58	1745.77	16	1.9E+07	996	1014
					[<i>Anguilla japonica</i>]						
1	BAP63926.1	type proa3	I	collagen chain	AGPpGPpGPGG KE	20.03	1148.55	18.4	1.7E+07	873	885
					[<i>Anguilla japonica</i>]						
1	BAP63926.1	type proa3	I	collagen chain	GAPGKDGDVG ApGApGPA	19.07	1521.71	20.7	1.6E+07	589	606
					[<i>Anguilla japonica</i>]						
1	BAP63926.1	type proa3	I	collagen chain	KDGDVGApGAp GPA	21.06	1239.57	19	1.4E+07	593	606
					[<i>Anguilla japonica</i>]						
1	BAP63926.1	type proa3	I	collagen chain	GpPpPpGPGGK	18.74	948.47	16.7	1.3E+07	874	884
					[<i>Anguilla japonica</i>]						
1	BAP63926.1	type proa3	I	collagen chain	GPPGPPGLnGPQ	21.53	1087.53	31.3	1.2E+07	169	180

[*Anguilla japonica*]

1 BAP63926.1 type I collagen GLpGPIGPpGPR 17.26 1145.62 29 1.0E+07 1138 1149
 proa3 chain

[*Anguilla japonica*]

1 BAP63926.1 type I collagen GLPGQDGRpG 22.33 968.47 20.1 9.9E+06 538 547
 proa3 chain

[*Anguilla japonica*]

1 BAP63926.1 type I collagen GEpGEpGASGP 19.92 1426.61 21.7 9.1E+06 187 201
 proa3 chain MGPR

[*Anguilla japonica*]

1 BAP63926.1 type I collagen LpGPPGGAGEK 17.26 994.51 21.5 8.9E+06 752 762
 proa3 chain

[*Anguilla japonica*]

1 BAP63926.1 type I collagen DGMnGLpGPIG 20.13 1563.74 35.2 6.3E+06 1134 1149
 proa3 chain PpGPR

[*Anguilla japonica*]

1 BAP63926.1 type I collagen AGPpGPPGPGG 19.71 1003.51 18.7 4.4E+06 873 884
 proa3 chain K

[*Anguilla japonica*]

1 BAP63926.1 type I collagen EpGPAGPAGPH 27.41 1001.46 18.5 2.9E+06 902 912
 proa3 chain

[*Anguilla japonica*]

1 BAP63926.1 type I collagen GETGGpGPSGP 21.87 1255.54 16.6 2.2E+06 646 659
 proa3 chain RGD

[*Anguilla japonica*]

1 BAP63926.1 type I collagen eGSpGHDGApG 19.46 1933.81 16.2 1.9E+06 996 1016
 proa3 chain RDGAAGpKGD

[*Anguilla japonica*]

1 BAP63926.1 type I collagen TGDTGpKGDAG 20.92 1664.74 16.8 1.7E+06 810 828
 proa3 chain ApGHAGPA

[*Anguilla japonica*]

1	BAP63926.1	type proa3	I	collagen chain	GMTGSpGSpGP DGK	20.55	1275.54	16.9	1.6E+06	520	533
					[<i>Anguilla japonica</i>]						
1	BAP63926.1	type proa3	I	collagen chain	GATGEAGKpGE GGPA	21.07	1270.58	16.3	1.3E+06	631	645
					[<i>Anguilla japonica</i>]						
1	BAP63926.1	type proa3	I	collagen chain	GDAGApGHAG PA	24.15	992.43	15.8	1.0E+06	817	828
					[<i>Anguilla japonica</i>]						
1	BAP63926.1	type proa3	I	collagen chain	GLPGQDGR	19.52	798.4	19.4	4.9E+05	538	545
					[<i>Anguilla japonica</i>]						
2	BAP63924.1	type proa1	I	collagen chain	GQDGRpGpGP A	27.83	1136.52	17.6	4.4E+08	547	558
					[<i>Anguilla japonica</i>]						
2	BAP63924.1	type proa1	I	collagen chain	GfPgsDgAgGp K	32.53	1061.48	20.8	1.4E+08	481	492
					[<i>Anguilla japonica</i>]						
2	BAP63924.1	type proa1	I	collagen chain	GPAGpPpGKnGE DGE	22.49	1297.54	16.6	7.0E+07	208	221
					[<i>Anguilla japonica</i>]						
2	BAP63924.1	type proa1	I	collagen chain	FpGSDGAGGpK	29.4	1004.46	19.4	5.4E+07	482	492
					[<i>Anguilla japonica</i>]						
2	BAP63924.1	type proa1	I	collagen chain	GDAGApGPAGP T	23.93	982.44	19.2	5.1E+07	823	834
					[<i>Anguilla japonica</i>]						
2	BAP63924.1	type proa1	I	collagen chain	NSGpPpGpGPA	19.95	978.44	20.5	4.5E+07	878	888
					[<i>Anguilla japonica</i>]						
2	BAP63924.1	type proa1	I	collagen chain	GQDGRpGpGP	23.08	1065.48	17.7	3.3E+07	547	557

2	BAP63924.1	type I collagen	proa1 chain	GPDGApGSRGE pGSpGPA	21.02	1609.7	17.4	6.6E+06	349	366
				[<i>Anguilla japonica</i>]						
2	BAP63924.1	type I collagen	proa1 chain	GEAGApGEnGT pGAmGPR	18.03	1673.7	18.5	5.9E+06	274	291
				[<i>Anguilla japonica</i>]						
2	BAP63924.1	type I collagen	proa1 chain	GQDGRpGppGP A	21.46	1152.52	16.6	5.1E+06	547	558
				[<i>Anguilla japonica</i>]						
2	BAP63924.1	type I collagen	proa1 chain	GDTGPAGpKGE	19.55	1000.45	16.5	3.4E+06	265	275
				[<i>Anguilla japonica</i>]						
2	BAP63924.1	type I collagen	proa1 chain	QPGGPGGER	23.76	910.43	18.9	2.8E+06	972	981
				[<i>Anguilla japonica</i>]						
2	BAP63924.1	type I collagen	proa1 chain	EGTpGAEGPSG R	24.94	1129.5	16.1	2.3E+06	1002	1013
				[<i>Anguilla japonica</i>]						
2	BAP63924.1	type I collagen	proa1 chain	GPAGpPGKnGE DGESGKpGR	21.33	1895.86	15.2	1.0E+06	208	227
				[<i>Anguilla japonica</i>]						
3	XP_0352606 97.1	collagen type I	alpha 1b isoform X1	GQDGRpGppGP A	27.83	1136.52	17.6	4.4E+08	542	553
				[<i>Anguilla anguilla</i>]						
3	XP_0352606 97.1	collagen type I	alpha 1b isoform X1	GLpGQDGRpG	17.25	984.46	17.8	6.2E+07	539	548
				[<i>Anguilla anguilla</i>]						
3	XP_0352606 97.1	collagen type I	alpha 1b isoform X1	GQDGRpGppGP	23.08	1065.48	17.7	3.3E+07	542	552
				[<i>Anguilla anguilla</i>]						
3	XP_0352606 97.1	collagen type I	alpha 1b isoform X1	GpPpPpPGGK	18.74	948.47	16.7	1.3E+07	875	885

<i>[Anguilla anguilla]</i>											
3	XP_0352606	collagen	type I	GLPGQDGRpG	22.33	968.47	20.1	9.9E+06	539	548	
	97.1	alpha 1b isoform X1									
<i>[Anguilla anguilla]</i>											
3	XP_0352606	collagen	type I	GQDGRpGppGP	21.46	1152.52	16.6	5.1E+06	542	553	
	97.1	alpha 1b isoform X1		A							
<i>[Anguilla anguilla]</i>											
3	XP_0352606	collagen	type I	EGGPAGETGSP	17.8	1352.58	19.2	6.3E+05	642	657	
	97.1	alpha 1b isoform X1		GPSGP							
<i>[Anguilla anguilla]</i>											
4	BAP63925.1	type I	collagen	EGSpGNDGPpG	22.53	1526.66	17.3	3.7E+08	923	938	
		proa2	chain	RpGVS							
<i>[Anguilla japonica]</i>											
4	BAP63925.1	type I	collagen	GEpGEpGQSGP	31.61	1451.66	20	1.6E+08	114	128	
		proa2	chain	VGPR							
<i>[Anguilla japonica]</i>											
4	BAP63925.1	type I	collagen	EGSpGNDGPpG	29.12	1583.68	17.6	7.0E+07	923	939	
		proa2	chain	RpGVSG							
<i>[Anguilla japonica]</i>											
4	BAP63925.1	type I	collagen	qGHpGEpGEpG	25.47	1869.82	21.3	4.1E+07	110	128	
		proa2	chain	QSGPVGPR							
<i>[Anguilla japonica]</i>											
4	BAP63925.1	type I	collagen	GSpGNDGPpGR	28.26	1397.62	16.9	3.7E+07	924	938	
		proa2	chain	pGVS							
<i>[Anguilla japonica]</i>											
4	BAP63925.1	type I	collagen	GSpGnDGPpGRp	21.21	1398.6	17.2	3.5E+07	924	938	
		proa2	chain	GVS							
<i>[Anguilla japonica]</i>											
4	BAP63925.1	type I	collagen	EGSPGNDGPpG	24	1510.66	18.3	2.5E+07	923	938	
		proa2	chain	RpGVS							
<i>[Anguilla japonica]</i>											

4	BAP63925.1	type I collagen	EGSpGnDGPpGR	22.23	1527.64	18	1.5E+07	923	938
		proa2 chain	pGVS						
			[<i>Anguilla japonica</i>]						
4	BAP63925.1	type I collagen	EGSpGNDGPpG	29.89	1324.56	16.9	1.4E+07	923	936
		proa2 chain	RPG						
			[<i>Anguilla japonica</i>]						
4	BAP63925.1	type I collagen	GHpGEpGEpGQ	23.83	1758.79	18.3	1.2E+07	111	128
		proa2 chain	SGPVGPR						
			[<i>Anguilla japonica</i>]						
4	BAP63925.1	type I collagen	GHPGEpGEpGQ	27.69	1742.8	18.9	1.1E+07	111	128
		proa2 chain	SGPVGPR						
			[<i>Anguilla japonica</i>]						
4	BAP63925.1	type I collagen	EGSpGNDGPpG	27.12	1439.63	18.5	1.1E+07	923	937
		proa2 chain	RpGV						
			[<i>Anguilla japonica</i>]						
4	BAP63925.1	type I collagen	EGSpGNDGPPG	31.47	1324.56	16.5	8.9E+06	923	936
		proa2 chain	RpG						
			[<i>Anguilla japonica</i>]						
4	BAP63925.1	type I collagen	EGSPGNDGPpG	20.19	1324.56	16.1	8.9E+06	923	936
		proa2 chain	RpG						
			[<i>Anguilla japonica</i>]						
4	BAP63925.1	type I collagen	GSpGnDGPpGRp	26.46	1455.62	17.5	6.9E+06	924	939
		proa2 chain	GVSG						
			[<i>Anguilla japonica</i>]						
4	BAP63925.1	type I collagen	HPGEpGEpGQS	21.51	1685.78	18.7	5.7E+06	112	128
		proa2 chain	GPVGPR						
			[<i>Anguilla japonica</i>]						
4	BAP63925.1	type I collagen	SpGNDGPpGRp	18.56	1340.6	17	5.2E+06	925	938
		proa2 chain	GVS						
			[<i>Anguilla japonica</i>]						
4	BAP63925.1	type I collagen	EGSpGnDGPpG	23.3	1584.67	18	3.3E+06	923	939
		proa2 chain	RpGVSG						

[*Anguilla japonica*]

4	BAP63925.1	type I collagen proa2 chain	EGSpGNDGPpG RP	23.54	1267.54	17.4	1.5E+06	923	935
			[<i>Anguilla japonica</i>]						
4	BAP63925.1	type I collagen proa2 chain	QGHPGEpGEpG QSGPVGPR	17.1	1870.86	19	1.3E+06	110	128
			[<i>Anguilla japonica</i>]						
4	BAP63925.1	type I collagen proa2 chain	EGSPGnDGPPG RpGVS	24.8	1511.65	18.7	9.8E+05	923	938
			[<i>Anguilla japonica</i>]						
4	BAP63925.1	type I collagen proa2 chain	EGSpGnDGPPGR pG	30.13	1341.54	15.7	9.1E+05	923	936
			[<i>Anguilla japonica</i>]						
5	XP_0352510 69.1	collagen alpha-2(I) chain-like isoform X2	EGSpGNDGPpG RpGAA	28.84	1482.63	16.3	4.0E+08	918	933
			[<i>Anguilla anguilla</i>]						
5	XP_0352510 69.1	collagen alpha-2(I) chain-like isoform X2	EGSpGnDGPPGR pGAA	22.47	1483.62	16.7	5.8E+07	918	933
			[<i>Anguilla anguilla</i>]						
5	XP_0352510 69.1	collagen alpha-2(I) chain-like isoform X2	GPAGPGGPpGA	18.62	849.4	20.7	4.6E+07	757	767
			[<i>Anguilla anguilla</i>]						
5	XP_0352510 69.1	collagen alpha-2(I) chain-like isoform X2	EGSPGNDGPpG RpGAA	27.98	1466.64	17.2	3.1E+07	918	933
			[<i>Anguilla anguilla</i>]						

10	XP_0352428	actin alpha cardiac muscle 1-like [<i>Anguilla anguilla</i>]	FAGDDAPR	25.22	847.38	19.6	4.0E+07	23	30
10	XP_0352428	actin alpha cardiac muscle 1-like [<i>Anguilla anguilla</i>]	GFAGDDAPR	30.51	904.4	21.7	3.9E+07	22	30
11	XP_0352773	collagen alpha-4(IV) chain-like [<i>Anguilla anguilla</i>]	GpPGPPGPpGPP GNPGP	22.34	1476.7	28.7	2.4E+06	1016	1032
12	XP_0352778	collagen alpha-1(X) chain [<i>Anguilla anguilla</i>]	GEnGFpGPR	17.94	946.41	22.8	7.8E+06	435	443
13	XP_0352454	collagen alpha-1(XII) chain-like isoform X3 [<i>Anguilla anguilla</i>]	EGpSGpRGPSGP	18.91	1125.51	19.3	1.2E+06	1680	1691
14	XP_0352728	collagen and calcium-binding EGF domain-containing protein 1-like [<i>Anguilla anguilla</i>]	PGSpGPpGAP	18.23	864.4	20.3	1.3E+08	247	256
14	XP_0352728	collagen and calcium-binding EGF domain-containing protein 1-like [<i>Anguilla anguilla</i>]	pGSPGPpGAP	17.22	864.4	20.7	1.3E+08	247	256
15	XP_0352671	autophagy-related protein 2 homolog A [<i>Anguilla anguilla</i>]	PGSpGPpGAP	18.23	864.4	20.3	1.3E+08	489	498

[*Anguilla anguilla*]

23	XP_0352895	cyclic	nucleotide-	TIGEMpAP	18.31	830.38	24.9	7.0E+05	336	343
	86.1	gated	olfactory							
		channel-like								

[*Anguilla anguilla*]

^a Accession number indicates the accession number assigned to each protein sequence by NCBI database. ^b Peptide sequence represented with their corresponding N- and C-terminal amino acid residues. Lowercase letters indicated that the amino acid has been modified, for example, p: hydroxyproline; m: oxidation (M); n: deamidation (NQ); e: pyro-Glu from E; q: pyro-Glu from Q.
