

Table S1. Description of the zebrafish genes cloned and used to produce recombinant proteins. Each clone was given a systematic number with the prefix cssl:d, listed in the first column. The clones are organised into two sections: those producing enough protein for screening and those that did not. The current official ZFIN nomenclature (ZFIN name), proposed new nomenclature (Prop. Name) and nucleotide sequence database accession number (Acc. No.) are also listed. The source of the clone is listed as either the IMAGE clone number, whether the gene was amplified by “RT-PCR” or RT-PCR following 5’RACE “RACE/RT-PCR”, or was obtained as a gift. The final C-terminal amino acid of the ectodomain – the truncation site - is listed (Trunc.). The last two columns name the closest human BLASTP match using the full length zebrafish protein translations, together with the percentage sequence identity (%ID).

Constructs included in the interaction screen

Gene name	ZFIN name	Prop. Name	Acc. No.	Source	Trunc.	%ID	Closest human BLAST match
<i>cssl:d127</i>	<i>zgc:158875</i>		CU458903	RT-PCR	766P	131/468 (27%)	VASCULAR CELL ADHESION PROTEIN 1
<i>cssl:d178</i>	<i>jam3</i>	<i>jam3b</i>	CU458938	IMAGE:3721278	236G	153/280 (54%)	JAM3
<i>cssl:d132</i>			CU458905	RT-PCR	238P	100/258 (38%)	EMBIGIN
<i>cssl:d148</i>			CU458918	IMAGE:6793177	134S	179/418 (42%)	SINGLE IG IL-1 RELATED RECEPTOR
<i>cssl:d183</i>			CU458941	IMAGE:5077706	134P	36/124 (29%)	V-SET DOMAIN CONTAINING T CELL ACTIVATION INHIBITOR 1
<i>cssl:d187</i>		<i>jam2</i>	CU458944	IMAGE:4790732	226A	104/233 (44%)	VEGA:OTTHUMP00000096102
<i>cssl:d188</i>			CU458945	IMAGE:4791303	437P	292/432 (67%)	IGSF21
<i>cssl:d191</i>			CU458948	IMAGE:4725301	152G	29/113 (25%)	CD48
<i>cssl:d213</i>	<i>si:ch211-149p10.2</i>		CU458960	IMAGE:5411520	146S	35/110 (31%)	BUTYROPHILIN
<i>cssl:d229</i>	<i>bsg</i>		CU458968	IMAGE:3734079	214A	103/267 (38%)	BASINGIN
<i>cssl:d232</i>	<i>wu:fu71h07</i>		CU458970	IMAGE:5335141	133P	34/118 (28%)	MOG
<i>cssl:d233</i>	<i>cntfr</i>		CU458971	fj33e02	325P	180/322 (55%)	CNTFR
<i>cssl:d230</i>	<i>neo1</i>		CU458829	IMAGE:4833682	1060P	753/1092 (68%)	NEOGENIN
<i>cssl:d135</i>	<i>mpzl3</i>		CU458906	IMAGE:5306208	148L	52/115 (45%)	VEGA:OTTHUMP00000165009
<i>cssl:d136</i>			CU458907	IMAGE:5306226	247S	61/242 (25%)	MAG-B
<i>cssl:d142</i>	<i>zgc:77222</i>		CU458912	IMAGE:6789149	575L	228/605 (37%)	IGSF8
<i>cssl:d144</i>			CU458914	IMAGE:6790512	236P	70/209 (33%)	A33 ANTIGEN
<i>cssl:d147</i>			CU458917	IMAGE:6792517	345G	51/185 (27%)	POLY IG RECEPTOR
<i>cssl:d155</i>	<i>fgfr1a</i>		CU458922	IMAGE:6794698	356P	298/464 (64%)	FGFRL1
<i>cssl:d163</i>	<i>zgc:158279</i>		CU458928	IMAGE:6960338	238P	124/253 (49%)	VEGA:OTTHUMP00000175951

<i>cssl:d168</i>	<i>zgc:110372</i>		CU458930	IMAGE:6967349	306G	173/307 (56%)	SIM TO OBCAM
<i>cssl:d169</i>			CU458931	IMAGE:6969476	211A	149/256 (58%)	BASINGIN
<i>cssl:d172</i>	<i>sb:cb578</i>		CU458932	fj15a08	218P	149/270 (55%)	NEUROPLASTIN
<i>cssl:d175</i>			CU458935	IMAGE:3716349	309G	63/213 (29%)	CEA1
<i>cssl:d177</i>	<i>sid4</i>		CU458937	IMAGE:3719398	381A	150/367 (40%)	ENSEMBL:ENSP00000363814
<i>cssl:d179</i>			CU458939	IMAGE:3722146	208P	60/209 (28%)	LFA3
<i>cssl:d180</i>	<i>si:dkey-15j16.3</i>		CU458940	IMAGE:3733240	264P	37/108 (34%)	A33 ANTIGEN
<i>cssl:d189</i>			CU458946	fk53c01	342G	54/212 (25%)	CD200
<i>cssl:d190</i>			CU458947	fj84b05	283G	47/169 (27%)	SIALOADHESIN
<i>cssl:d212</i>	<i>zgc:56104</i>	<i>pdgfrl</i>	CU458959	IMAGE:5411077	371D	203/348 (58%)	PDGFRL
<i>cssl:d218</i>	<i>igsf4d</i>		CU458965	IMAGE:5603809	328P	264/410 (64%)	IGSF4D
<i>cssl:d220</i>			CU458966	IMAGE:5776866	233P	45/192 (23%)	CD48
<i>cssl:d173</i>			CU458933	fj20e11	241G	48/209 (22%)	CEA
<i>cssl:d137</i>	<i>zgc:85609</i>		CU458908	IMAGE:6519680	363W	205/348 (58%)	HYALURONAN AND PROTEOGLYCAN LINK PROTEIN 3
<i>cssl:d153</i>	<i>si:dkey-24p1.1</i>		CU458921	IMAGE:6793789	790S	161/609 (26%)	CD22
<i>cssl:d156</i>			CU458923	IMAGE:6795060	221S	44/174 (25%)	CD22
<i>cssl:d158</i>			CU458925	IMAGE:6797311	146P	27/96 (28%)	V1-3 PROTEIN
<i>cssl:d166</i>			CU458929	IMAGE:6965929	934P	257/788 (32%)	IGSF2
<i>cssl:d185</i>			CU458942	IMAGE:5080357	199P	45/125 (36%)	T-CELL IMMUNOGLOBULIN AND MUCIN DOMAIN-CONTAINING PROTEIN 4
<i>cssl:d199</i>	<i>wu:fi26e06</i>		CU458952	IMAGE:2602306	353G	97/282 (34%)	IL-11R
<i>cssl:d203</i>	<i>zgc:66133</i>		CU458955	IMAGE:3816405	159S	84/156 (53%)	C20ORF102
<i>cssl:d205</i>			CU458816	IMAGE:3817913	727P	464/712 (65%)	NEUROFASCIN
<i>cssl:d228</i>			CU458967	158_B02_2	114K	31/101 (30%)	VEGA:OTTHUMP00000066243
<i>cssl:d217</i>			CU458964	IMAGE:5602586	506P	55/212 (25%)	ENSEMBL:ENSP00000364178
<i>cssl:d805</i>			CU458862	RACE / RT-PCR	165S	52/138 (37%)	C10ORF72
<i>cssl:d807</i>			CU458864	RT-PCR	150T	35/115 (30%)	TRANSMEMBRANE AND IMMUNOGLOBULIN DOMAIN-CONTAINING PROTEIN 2
<i>cssl:d808</i>			CU458865	RT-PCR	145R	31/110 (28%)	MYOSIN LIGHT CHAIN KINASE
<i>cssl:d809</i>	<i>nitr5</i>		CU458866	RT-PCR	254P	42/127 (33%)	TRA
<i>cssl:d810</i>			CU458867	RT-PCR	216G	56/181 (30%)	TRANSMEMBRANE AND IMMUNOGLOBULIN DOMAIN-CONTAINING PROTEIN 1
<i>cssl:d811</i>			CU458868	RACE / RT-PCR	283S	175/253 (69%)	FGFR1
<i>cssl:d812</i>			CU458869	RACE / RT-PCR	247A	166/240 (69%)	IGSF11
<i>cssl:d813</i>			CU458870	RACE / RT-PCR	230T	78/199 (39%)	VEGA:OTTHUMP00000096102

<i>cssl:d814</i>	<i>zgc:100871</i>	<i>negr1</i>	CU458871	RT-PCR	317P	191/316 (60%)	NEURONAL GROWTH REGULATOR 1
<i>cssl:d815</i>	<i>zgc:136455</i>		CU458872	RT-PCR	311S	159/307 (51%)	OBCAM
<i>cssl:d816</i>			CU458873	RT-PCR	317K	49/186 (26%)	CD200
<i>cssl:d817</i>			CU458874	RT-PCR	304G	61/213 (28%)	CEA
<i>cssl:d818</i>			CU458875	RT-PCR	402T	68/203 (33%)	TAPASIN
<i>cssl:d819</i>	<i>fgfr1b</i>		CU458876	RT-PCR	374P	221/340 (65%)	FGFRL
<i>cssl:d820</i>	<i>zgc:64208</i>	<i>kirrel</i>	CU458877	RT-PCR	501G	330/487 (67%)	KIRRE
<i>cssl:d821</i>	<i>mag</i>		CU458878	RACE / RT-PCR	516K	210/491 (42%)	MAG
<i>cssl:d823</i>	<i>robo4</i>		CU458880	RT-PCR	591P	146/292 (50%)	ROBO1
<i>cssl:d824</i>	<i>nadl1.1</i>		CU458881	RT-PCR	1125G	413/1112 (37%)	L1
<i>cssl:d826</i>	<i>cntn2</i>		CU458883	RT-PCR	576S	271/498 (54%)	CONTACTIN-2
<i>cssl:d827</i>	<i>ncam2</i>		CU458884	RT-PCR	698L	425/691 (61%)	NCAM2
<i>cssl:d828</i>	<i>ncam1</i>		CU458885	RT-PCR	700G	441/712 (61%)	NCAM
<i>cssl:d829</i>	<i>robo2</i>		CU458886	RT-PCR	862P	693/857 (80%)	ROBO2
<i>cssl:d830</i>	<i>musk</i>		CU458887	RT-PCR	565S	243/462 (52%)	MUSK
<i>cssl:d831</i>	<i>musk</i>		CU458888	RT-PCR	300S	75/151 (49%)	MUSK
<i>cssl:d832</i>	<i>unc5b</i>		CU458889	RT-PCR	376G	252/337 (74%)	UNC5B
<i>cssl:d833</i>		<i>hapln2</i>	CU458890	RT-PCR	337R	171/304 (56%)	HYALURONAN AND PROTEOGLYCAN LINK PROTEIN 2
<i>cssl:d411</i>			CU458995	RACE / RT-PCR	666P	422/821 (51%)	SEMA-4C
<i>cssl:d107</i>	<i>fgfr1</i>		CU458752	RT-PCR	353P	274/483 (56%)	FGFR1
<i>cssl:d100</i>	<i>robo1</i>		CU458748	RT-PCR	866A	646/871 (74%)	ROBO1
<i>cssl:d102</i>	<i>robo3</i>		CU458749	RT-PCR	897P	590/915 (64%)	ROBO2
<i>cssl:d104</i>	<i>boc</i>		CU458750	RT-PCR	812P	251/420 (59%)	VEGA:OTTHUMP00000096002
<i>cssl:d105</i>	<i>tpsn</i>		CU458751	RT-PCR	401P	68/215 (31%)	TAPASIN
<i>cssl:d109</i>	<i>fgfr4</i>		CU458754	RT-PCR	476A	210/367 (57%)	FGFR4
<i>cssl:d114</i>	<i>kita</i>		CU458898	RT-PCR	514P	353/842 (41%)	MAST/STEM CELL GROWTH FACTOR RECEPTOR
<i>cssl:d116</i>	<i>csf1r</i>		CU458899	RT-PCR	513S	242/646 (37%)	MACROPHAGE COLONY STIMULATING FACTOR 1 RECEPTOR
<i>cssl:d399</i>	<i>dla</i>		CU458989	Gift from J. Lewis	534P	433/636 (68%)	DELTA-LIKE1
<i>cssl:d161</i>	<i>zgc:85888</i>		CU458927	IMAGE:6799254	248P	124/251 (49%)	INSULIN-LIKE GROWTH FACTOR-BINDING PROTEIN 7
<i>cssl:d400</i>	<i>dlb</i>		CU458990	Gift from J. Lewis	518P	279/465 (60%)	DELTA-LIKE1
<i>cssl:d402</i>	<i>dld</i>		CU458992	Gift from J. Lewis	545P	497/718 (69%)	DELTA-LIKE1
<i>cssl:d407</i>	<i>sema4e</i>		CU458994	RT-PCR	664T	269/598 (44%)	SEMA-4D

<i>cssl:d108</i>	<i>cxadr</i>	CU458753	RT-PCR	241G	159/363 (43%)	COXSACKIEVIRUS AND ADENOVIRUS RECEPTOR
<i>cssl:d401</i>	<i>dlc</i>	CU458991	Gift from J. Lewis	508P	299/601 (49%)	DELTA-LIKE1
<i>cssl:d834</i>		CU458996	RACE / RT-PCR	234P	103/286 (36%)	IGSF11A
<i>cssl:d835</i>		CU458997	RACE / RT-PCR	232S	78/248 (31%)	BUTYROPHILIN
<i>cssl:d836</i>	<i>kitb</i>	CU458998	RACE / RT-PCR	205E	61/208 (29%)	MAST/STEM CELL GROWTH FACTOR RECEPTOR
<i>cssl:d111</i>	<i>dtk</i>	CU458897	RT-PCR	393S	345/675 (51%)	TYROSINE-PROTEIN KINASE RECEPTOR TYR03
<i>cssl:d206</i>	<i>zgc:113035</i>	CU458957	RT-PCR	348P	195/469 (41%)	POLIOVIRUS RECEPTOR-RELATED 3
<i>cssl:d124</i>	<i>zgc:113035</i>	CU458902	IMAGE:3820649	390G	191/459 (41%)	POLIOVIRUS RECEPTOR-RELATED 3
<i>cssl:d131</i>	<i>nlcam</i>	CU458904	RT-PCR	504A	186/549 (33%)	CD166
<i>cssl:d176</i>	<i>nlcam</i>	CU458936	IMAGE:3718170	504A	197/569 (34%)	CD166
<i>cssl:d139</i>		CU458910	IMAGE:6524968	297T	59/279 (21%)	VEGA:OTTHUMP00000038305
<i>cssl:d202</i>		CU458954	IMAGE:3815202	292I	58/279 (20%)	VEGA:OTTHUMP00000012652
<i>cssl:d216</i>	<i>f11r</i>	CU458963	RT-PCR	225N	105/268 (39%)	JAM-A
<i>cssl:d121</i>	<i>f11r</i>	CU458900	IMAGE:5601940	227G	105/268 (39%)	JAM-A
<i>cssl:d141</i>		CU458911	IMAGE:6525847	238S	23/89 (25%)	CD2
<i>cssl:d143</i>		CU458913	IMAGE:6789386	237G	23/89 (25%)	CD2
<i>cssl:d174</i>	<i>mpzl2</i>	CU458934	fj23d04	149G	65/139 (46%)	EVA1
<i>cssl:d204</i>	<i>mpzl2</i>	CU458956	IMAGE:3816945	146L	58/128 (45%)	EVA1
<i>cssl:d410</i>	<i>si:ch211-278n20.1</i>	CU458860	RACE / RT-PCR	659I	483/650 (74%)	SEMA-6D
<i>cssl:d408</i>	<i>si:ch211-278n20.1</i>	CU458858	RACE / RT-PCR	588I	460/575 (80%)	SEMA-6D
<i>cssl:d215</i>	<i>alcam</i>	CU458962	IMAGE:5600242	496P	198/551 (35%)	CD166
<i>cssl:d822</i>	<i>alcam</i>	CU458879	RT-PCR	497A	189/506 (37%)	CD166
<i>cssl:d186</i>	<i>mpz</i>	CU458943	IMAGE:5082512	146L	70/127 (55%)	P0
<i>cssl:d806</i>	<i>mpz</i>	CU458863	RT-PCR	142V	71/128 (55%)	P0
<i>cssl:d097</i>	<i>ncam3</i>	CU458747	RT-PCR	710P	471/797 (59%)	NCAM
<i>cssl:d825</i>	<i>ncam3</i>	CU458882	RT-PCR	718P	430/718 (59%)	NCAM

Constructs not expressing enough protein

<i>cssl:d837</i>			CU458999	RACE / RT-PCR	370R	253/376 (67%)	NCAM
<i>cssl:d115</i>	<i>pdgfra</i>		CU458757	RT-PCR	496P	632/1065 (59%)	PDGFRA
<i>cssl:d214</i>			CU458961	IMAGE:5412036	399P	71/224 (31%)	TAPASIN
<i>cssl:d123</i>	<i>jam3</i>	<i>jam3b</i>	CU458901	RT-PCR	222G	153/280 (54%)	JAM3
<i>cssl:d145</i>	<i>cdon</i>		CU458915	IMAGE:6790557	324G	135/338 (39%)	CELL ADHESION MOLECULE-RELATED/DOWN-REGULATED BY ONCOGENES
<i>cssl:d149</i>			CU458919	IMAGE:6793492	155P	37/152 (26%)	TREMBL:Q96I69
<i>cssl:d196</i>	<i>musk</i>		CU458949	IMAGE:2599726	337P	145/247 (58%)	MUSK
<i>cssl:d236</i>	<i>si:dkey-235h8.3</i>		CU458972	IMAGE:fj51g03	337R	170/304 (55%)	HYALURANON AND PROTEOGLYCAN LINK PROEIN 2
<i>cssl:d838</i>			CU459000	RACE / RT-PCR	173R	93/170 (54%)	LIPOLYSIS-STIMULATED LIPOPROTEIN RECEPTOR
<i>cssl:d157</i>			CU458924	IMAGE:6797164	216G	74/216 (34%)	TRANSMEMBRANE AND IMMUNOGLOBULIN DOMAIN-CONTAINING PROTEIN 1
<i>cssl:d207</i>			CU458958	IMAGE:4726179	325G	84/302 (27%)	POLIOVIRUS-RELATED RECEPTOR 1
<i>cssl:d403</i>	<i>jag2</i>		CU458993	Gift from J. Lewis	1081P	687/1145 (60%)	JAGGED2
<i>cssl:d405</i>	<i>sema3aa</i>		CU458855	RT-PCR	857P	533/732 (72%)	SEMA-3A
<i>cssl:d405</i>	<i>sema3aa</i>		CU458855	RT-PCR	672P	533/732 (72%)	SEMA-3A
<i>cssl:d406</i>	<i>sema3ab</i>		CU458856	RT-PCR	765N	566/752 (75%)	SEMA-3A
<i>cssl:d409</i>	<i>sema3fa</i>		CU458859	RACE / RT-PCR	717P	509/750 (67%)	SEMA-3F