

	(D)S-1a	(D)S-1b	(D)S-2a	(D)S-2b	(M)S3A	(M)S3B	(M)S3C	(M)S3D	(M)S3E	(M)S3F	(M)S3G	(M)S4A	(M)S4B	(M)S4C	(M)S4D	(Z)S4E	(M)S4F	(M)S4G	(M)S5A	(M)S5B	(D)S5c	(M)S6A	(M)S6B	(M)S6C	(M)S6D	(M)S7A	(V)SVA	(V)SVB	
(D)Sema-1a		30.6%	25.5%	23.3%	24.9%	25.4%	24.1%	25.0%	22.5%	23.3%	23.5%	23.0%	24.4%	25.3%	26.2%	22.0%	21.6%	21.8%	24.6%	24.4%	17.6%	26.7%	26.0%	27.4%	26.8%	17.5%	12.0%	15.7%	(D)Sema-1a
(D)Sema-1b			24.2%	25.4%	24.5%	25.0%	22.9%	25.8%	24.8%	25.0%	26.4%	23.9%	26.8%	23.0%	25.2%	24.4%	25.9%	24.4%	19.0%	20.5%	18.5%	23.5%	22.0%	25.6%	21.2%	12.2%	21.6%	(D)Sema-1b	
(D)Sema-2a				64.8%	28.0%	27.1%	26.1%	25.5%	25.4%	26.5%	25.6%	22.6%	23.4%	24.2%	23.7%	24.5%	22.2%	22.6%	18.8%	19.1%	19.4%	19.1%	23.6%	22.6%	22.6%	19.0%	15.0%	20.8%	(D)Sema-2a
(D)Sema-2b					26.8%	24.9%	25.4%	26.9%	26.3%	26.9%	24.5%	21.9%	23.8%	24.1%	25.2%	26.1%	23.7%	20.7%	20.1%	19.5%	18.3%	18.6%	22.1%	21.5%	23.3%	22.3%	14.3%	19.9%	(D)Sema-2b
(M)Sema3A						51.4%	44.9%	51.8%	35.6%	46.7%	46.2%	27.2%	28.5%	29.3%	28.7%	28.4%	25.9%	28.3%	19.5%	17.7%	17.3%	21.2%	22.4%	22.0%	23.2%	23.2%	12.9%	20.9%	(M)Sema3A
(M)Sema3B							42.1%	43.6%	42.3%	42.3%	45.0%	26.0%	27.6%	31.8%	27.0%	29.4%	28.3%	27.8%	19.0%	18.2%	18.2%	21.9%	24.9%	24.6%	21.8%	26.3%	12.5%	20.7%	(M)Sema3B
(M)Sema3C								44.3%	42.0%	52.2%	42.5%	27.6%	24.5%	27.2%	27.4%	26.8%	25.2%	24.6%	17.0%	19.0%	13.7%	22.6%	23.1%	22.3%	22.0%	24.3%	13.7%	21.6%	(M)Sema3C
(M)Sema3D									43.7%	43.7%	43.7%	28.5%	26.6%	26.8%	28.9%	29.4%	27.2%	26.8%	17.3%	17.3%	18.4%	20.8%	21.8%	23.0%	22.8%	24.3%	12.7%	21.6%	(M)Sema3D
(M)Sema3E										42.0%	49.1%	24.5%	28.0%	27.0%	26.7%	27.5%	27.5%	23.7%	19.9%	19.1%	16.6%	20.4%	23.4%	21.7%	18.8%	21.5%	12.9%	22.0%	(M)Sema3E
(M)Sema3F											42.4%	29.2%	27.7%	28.6%	26.1%	27.1%	26.4%	26.6%	17.7%	18.0%	16.4%	20.5%	26.0%	23.2%	21.1%	24.6%	12.4%	21.4%	(M)Sema3F
(M)Sema3G												26.9%	30.0%	26.7%	29.9%	27.5%	27.9%	27.9%	19.1%	19.4%	19.0%	21.3%	22.1%	22.3%	20.2%	23.5%	12.6%	20.9%	(M)Sema3G
(M)Sema4A													33.9%	29.3%	30.7%	28.9%	29.5%	29.3%	18.6%	20.5%	17.8%	19.3%	24.4%	22.4%	22.2%	24.0%	11.6%	20.8%	(M)Sema4A
(M)Sema4B														35.1%	34.6%	32.7%	34.2%	33.4%	18.7%	18.2%	17.0%	21.4%	28.3%	26.8%	20.6%	24.5%	11.8%	20.1%	(M)Sema4B
(M)Sema4C															33.1%	33.5%	31.4%	38.7%	20.4%	20.6%	17.6%	22.9%	26.4%	25.6%	22.3%	20.7%	11.6%	18.7%	(M)Sema4C
(M)Sema4D																36.6%	27.4%	32.3%	19.8%	19.9%	16.9%	21.5%	24.1%	24.8%	24.1%	20.3%	11.3%	18.8%	(M)Sema4D
(Z)Sema4E																	30.9%	29.3%	17.1%	17.1%	15.1%	21.8%	22.8%	20.2%	21.5%	23.6%	12.3%	18.8%	(Z)Sema4E
(M)Sema4F																		31.2%	18.4%	18.8%	16.2%	20.8%	22.5%	22.2%	18.3%	25.4%	11.6%	20.3%	(M)Sema4F
(M)Sema4G																			18.4%	18.9%	17.9%	20.2%	24.7%	23.4%	20.3%	21.1%	10.8%	18.5%	(M)Sema4G
(M)Sema5A																				56.5%	33.7%	22.2%	22.3%	21.7%	20.1%	15.6%	7.1%	15.0%	(M)Sema5A
(M)Sema5B																					34.2%	24.0%	24.3%	23.0%	22.3%	17.2%	7.4%	11.7%	(M)Sema5B
(D)Sema5c																						16.8%	20.6%	19.6%	22.3%	12.6%	8.6%	11.7%	(D)Sema5c
(M)Sema6A																							40.7%	36.0%	46.2%	15.9%	9.6%	15.7%	(M)Sema6A
(M)Sema6B																								38.2%	36.9%	19.3%	10.5%	15.4%	(M)Sema6B
(M)Sema6C																									38.2%	16.4%	11.3%	15.0%	(M)Sema6C
(M)Sema6D																										15.4%	10.0%	16.1%	(M)Sema6D
(M)Sema7A																											18.0%	39.8%	(M)Sema7A
(V)SemaVA																												19.5%	(V)SemaVA
(V)SemaVB																													(V)SemaVB

Suppl. Fig. 1. Percent identity at the amino acid level for the different semaphorins.

As indicated, Sema-1a, Sema-1b, Sema-2a, Sema-2b, and Sema5c are *Drosophila* (D) sequences. SemaVA and SemaVB are viral (V) sequences. Sema4E is a zebrafish (Z) sequence since it has not been identified in mammals. All other sequences are mouse (M). The percent identity was determined using the European Bioinformatics Institute EMBOSS Pairwise Alignment Algorithm using the Needle feature to align the whole length of both sequences (<http://www.ebi.ac.uk/emboss/align/>).