

Table S2. Details for Slo-1 channel protein sequences using for phylogenetic analysis and identification of splice variants

Species	Systematic position	Protein	Amino acid length	Molecular Weight (kDa)	pI	Accession no. ^a
<i>Caenorhabditis elegans</i>	Chromadorea Rhabditida Rhabditoidea clade V	<i>CelSlo-1a</i>	1140	129.5	5.75	NP_001024259
<i>Caenorhabditis elegans</i>	Chromadorea Rhabditida Rhabditoidea clade V	<i>CelSlo-1b</i>	1118	127.0	5.67	NP_001024260
<i>Caenorhabditis elegans</i>	Chromadorea Rhabditida Rhabditoidea clade V	<i>CelSlo-1c</i>	1131	128.6	5.58	NP_001024261
<i>Caenorhabditis briggsae</i>	Chromadorea Rhabditida Rhabditoidea clade V	<i>CbrSlo-1</i>	1142	129.7	5.69	XP_2638493
<i>Caenorhabditis remanei</i>	Chromadorea Rhabditida Rhabditoidea clade V	<i>CreSlo-1</i>	1167	132.6	5.77	XP_003094347
<i>Haemonchus contortus</i>	Chromadorea Rhabditida Rhabditoidea clade V	<i>HcoSlo-1</i>	1105	125.2	5.77	ABS45068
<i>Cooperia oncophora</i>	Chromadorea Rhabditida Rhabditoidea clade V	<i>ConSlo-1</i>	1111	125.9	5.80	ABS45069

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<i>Ancylostoma caninum</i>	Chromadorea Rhabditida Rhabditoidea clade V	<i>AcaSlo-1</i>	1116	126.7	5.44	ACC68842
<i>Pristionchus pacificus</i>	Chromadorea Rhabditida Rhabditoidea clade V	<i>PpaSlo-1</i>	1188	134.1	5.56	PPA29145 ^b
<i>Strongyloides ratti</i>	Chromadorea Rhabditida Panagrolaimoidea Clade IV	<i>SraSlo-1</i>	1170	131.4	5.51	Sr321_0X00136 00.t1 ^c
<i>Meloidogyne incognita</i>	Chromadorea Tylenchida Tylenchoidea CladeIV	<i>MinSLO-1</i>	1120	126.4	5.39	Minc04076a ^d
<i>Dirofilaria immitis</i>	Chromadorea Spirurida clade III	<i>DimSlo-1a</i>	1119	126.7	5.27	AFH88396
<i>Dirofilaria immitis</i>	Chromadorea Spirurida clade III	<i>DimSlo-1b</i>	1104	125.0	5.44	AFX93730
<i>Onchocerca gutturosa</i>	Chromadorea Spirurida clade III	<i>OguSlo-1</i>	1119	126.8	5.27	ADY18306
<i>Brugia malayi</i>	Chromadorea Spirurida clade III	<i>BmaSlo-1c</i>	1115	126.3	5.19	BM6719c ^b
<i>Brugia malayi</i>	Chromadorea Spirurida clade III	<i>BmaSlo-1d</i>	1132	128.2	5.39	BM6719d ^b
<i>Brugia malayi</i>	Chromadorea Spirurida clade III	<i>BmaSlo-1e</i>	1079	122.3	5.30	BM6719e ^b

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<i>Brugia malayi</i>	Chromadorea Spirurida clade III	<i>BmaSlo-1f</i>	1104	125.1	5.40	BM6719f ^b KJ531222
<i>Brugia malayi</i>	Chromadorea Spirurida clade III	<i>BmaSlo-1g</i>	1087	123.2	5.19	BM6719g ^b
<i>Brugia malayi</i>	Chromadorea Spirurida clade III	<i>BmaSlo-1h</i>	1104	125.0	5.44	BM6719h ^b
<i>Ascaris suum</i>	Chromadorea Ascaridoidea clade III	<i>AsuSlo-1</i>	1117	126.4	5.04	ACC68842
<i>Parascaris equorum</i>	Chromadorea Ascaridoidea clade III	<i>PeqSlo-1</i>	1108	125.2	5.51	ACC68843
<i>Toxocara canis</i>	Chromadorea Ascaridoidea clade III	<i>TcaSlo-1</i>	1123	126.9	5.38	ACJ64718
<i>Trichuris muris</i>	Enoplea Trichocephalida clade I	<i>TmuSlo-1.1a</i>	1151	130.1	5.70	AEB96250
<i>Trichuris muris</i>	Enoplea Trichocephalida clade I	<i>TmuSlo-1.1b</i>	1151	130.2	5.67	KJ531218
<i>Trichuris muris</i>	Enoplea Trichocephalida clade I	<i>TmuSlo-1.1c</i>	346	41.5	6.21	KJ531219
<i>Trichuris muris</i>	Enoplea Trichocephalida clade I	<i>TmuSlo-1.1d</i>	303	34.7	6.48	KJ531220

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<i>Trichuris muris</i>	Enoplea Trichocephalida clade I	<i>TmuSlo-1.2</i>	1123	126.9	5.59	KJ531221
<i>Trichinella spiralis</i>	Enoplea Trichocephalida clade I	<i>TspSlo-1.1</i>	1134	128.5	5.57	XP_003370273 XP_003370274 ^e
<i>Trichinella spiralis</i>	Enoplea Trichocephalida clade I	<i>TspSlo-1.2</i>	1129	128.0	5.2	XP_003370270 XP_003370271 XP_003370272 ^e
<i>Daphnia pulex</i>	Ecdysozoa Crustacea Branchiopoda	<i>DpuSlo-1</i>	1028	115.7	5.60	EFX85873
<i>Pediculus humanus corporis</i>	Ecdysozoa Insecta Anoplura	<i>PhuSlo-1</i>	1141	127.9	5.28	XP_002425826
<i>Anopheles gambiae</i>	Ecdysozoa Insecta Diptera	<i>AgaSlo-1</i>	1154	129.1	5.19	XP_313505.5
<i>Drosophila melanogaster</i>	Ecdysozoa Insecta Diptera	<i>DmeSlo-1Q</i>	1175	130.3	5.13	NP_001014651
<i>Drosophila melanogaster</i>	Ecdysozoa Arthropoda Diptera	<i>DmeSlo-1S</i>	1210	134.4	5.48	NP_001163712
<i>Aplysia californica</i>	Lophotrochozoa Mollusca Gastropoda	<i>AcalSlo-1</i>	1070	120.2	6.34	AAR27959
<i>Gallus gallus</i>	Vertebrata Aves	<i>GgaSlo-1</i>	1140	128.1	6.60	AAD16633

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<i>Bos taurus</i>	Vertebrata Mammalia Ruminantia	<i>BtaSlo-1</i>	1166	130.1	6.31	NP_777105
<i>Homo sapiens</i>	Vertebrata Mammalia Primates	<i>HsaSlo-1</i>	1236	135.6	6.64	NP_001154824

^aIf not further specified protein accession numbers from GenBank are given.

^bIn WormBase.

^cIn Sanger *S. ratti* genome database.

^dIn INRA *M. incognita* genome database.

^eA full-length consensus sequence was built from these entries.