

Phylogenetic Analyses

T-type Ca_v

Homo	O95180.4	Swiss-Prot
Ciona	269719	JGI-Genome Portal
Helobdella	66349	JGI-Genome Portal
Drosophila	NM_001103419.1	NR Protein
Caenorhabditis	WP:CE36117	WormBase
Trichoplax	21513	JGI-Genome Portal

L-type Ca_v

Oryctolagus	P15381.1	Swiss-Prot
Ciona	239620	JGI-Genome Portal
Helobdella	128998	JGI-Genome Portal
Caenorhabditis	WP:CE31165	WormBase
Drosophila	NM_080365.2	NR Protein
Strongylocentrotus	GLEAN3_07770	SpBase
Nematostella	88037	JGI-Genome Portal
Stylophora	AAD11470.1	NR Protein
Cyanea	AAC63050.1	NR Protein
Trichoplax	18642	JGI-Genome Portal

N/P/Q-type Ca_v

Homo P/Q	O00555.2	Swiss-Prot
Homo N	O55017.1	Swiss-Prot
Strongylocentrotus	GLEAN3_11692	SpBase
Schistosoma	AAK84313.1	NR Protein
Caenorhabditis	WP:CE31225	WormBase
Mnemiopsis	JF905561	NR Protein

Other Ca_v

Amphimedon	228755	Metazome
Salpingoeca	PTSG_09464.1	Origins of Multicellularity

Non-Opisthokont Four-Domain Channels

Micromonas	XP_003062007.1	NR Protein
Chlamydomonas	XP_001701475.1	NR Protein
Volvox	XP_002954479.1	NR Protein
Ectocarpus	CBJ26318.1	NR Protein
Thalassiosira	XP_002289136.1	NR Protein
Phytophthora 1	574424	JGI Genome Portal
Phytophthora 2	539928	JGI Genome Portal
Paramecium	XP_001445891.1	NR Protein
Ostreococcus 1	XP_001415426.1	NR Protein
Ostreococcus 2	XP_001418450.1	NR Protein
Emiliana	44890	JGI Genome Portal

Nav

Mus 1.4 Nav1	NM_133199.2	NR Protein
Homo 1.6 Nav1	NM_014191.2	NR Protein
Ciona Nav1	249763	JGI-Genome Portal
Halocynthia Nav1	662385	NR PROTEIN
Lottia Nav1	177540	JGI-Genome Portal
Helobdella Nav1	109965	JGI-Genome Portal
Drosophila Nav1	150421666	NR PROTEIN
Halocynthia Nav2	8096345	NR PROTEIN
Ciona Nav2	259743	JGI-Genome Portal
Strongylocentrotus	GLEAN3_25997	SpBase
Lottia Nav2	161240	JGI-Genome Portal
Drosophila Nav2	166215092	NR PROTEIN
Polyorchis	3005564	NR PROTEIN
Cyanea	994814	NR PROTEIN
Nematostella	122010	JGI-Genome Portal
Aiptasia	2791840	NR PROTEIN
Trichoplax	23340	JGI-Genome Portal
Mnemiopsis	JF905562	NR Protein
Monosiga	JF827087	NR Protein
Salpingoeca	PTSG_00336.1	Origins of Multicellularity

NALCN

* not used in phylogenies.

Homo	NP_443099.1	NR Protein
Caenorhabditis	NP_741413.2	NR Protein
Caenorhabditis*	NP_498054.2	NR Protein
Drosophila	NP_727772.2	NR Protein
Nematostella	XP_001637238.1	NR Protein
Nematostella*	XP_001637237.1	NR Protein
Trichoplax	XP_002107592.1	NR Protein
Amphimedon	Aqu1.217330	Spongezome
Amphimedon*	Aqu1.221707	Spongezome

Fungal Calcium Channels

Saccharomyces	NP_011733.1	NR Protein
Aspergillus	EHA17962.1	NR Protein
Phycomyces	147120	JGI-Genome Portal
Mucor	147296	JGI-Genome Portal
Allomyces	AMAG_07500.2	Origins of Multicellularity