

Product datasheet for **RG216362**

SLC38A11 (NM_173512) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC38A11 (NM_173512) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC38A11
Synonyms:	AVT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216362 representing NM_173512 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGCAAGCTGGGTTTCCTTTGGGAATATTGCTTTTATTCTGGGTTTCATATGTTACAGACTTTTCCC
 TTGTTTTATTGATAAAGGAGGGGCCCTCTCTGGAACAGATACCTACCACTCTTTGGTCAATAAACTTT
 CGGCTTTCCAGGGTATCTGCTCCTCTCTGTTCTTCAGTTTTGTATCCTTTATAGTTGATCCTGAAAAC
 GTGTTTATCGGTCGCCACTTCATTATTGGACTTTCCACAGTTACCTTTACTCTGCCTTTATCCTTGTACC
 GAAATATAGCAAAGCTTGAAAGGTCTCCCTCATCTCTACAGTTTAACAACCTCTGATTCTTGAATTGT
 AATGGCAAGGGCAATTTCACTGGGTCCACACATACCAAAAACAGAAGACGCTTGGGTATTTGCAAAGCCC
 AATGCCATTCAAGCGGTGCGGGTTATGTCTTTGCATTTATTTGCCACCATAACTCCTTCTTAGTTTACA
 GTTCTCTAGAAGAACCACAGTAGCTAAGTGGTCCCGCCTTATCCATATGTCCATCGTGATTCTGTATT
 TATCTGTATATTCTTTGCTACATGTGGATACTTGACATTTACTGGCTTCAACCAAGGGGACTTATTTGAA
 AATTACTGCAGAAATGATGACCTGGTAACATTTGGAAGATTTGTTATGGTGTCACTGTCATTTTGACAT
 ACCCTATGGAATGCTTTGTGACAAGAGAGGTAATTGCCAATGTGTTTTTGGTGGGAATCTTTCATCGGT
 TTTCCACATTGTTGTAACAGTGATGGTCATCACTGTAGCCACGCTTGTGTCATTGCTGATTGATTCCTC
 GGGATAGTTCTAGAACTCAATGGTGTGCTCTGTGCAACTCCCCTCATTTTATCATTCCATCAGCCTGTT
 ATCTGAACTGTCTGAAGAACCAAGGACACACTCCGATAAGATTATGCTTGTGTCATGCTTCCCATTGG
 TGCTGTGGTGATGGTTTTTGGATTCTGTCATGGCTATTACAAATACTCAAGACTGCACCCATGGGCAGGAA
 ATGTTCTACTGCTTCTGACAATTTCTCTCTCACAATACCTCAGAGTCTCATGTTTCAGCAGACAACAC
 AACTTTCTACTTTAAATATTAGTATCTTTCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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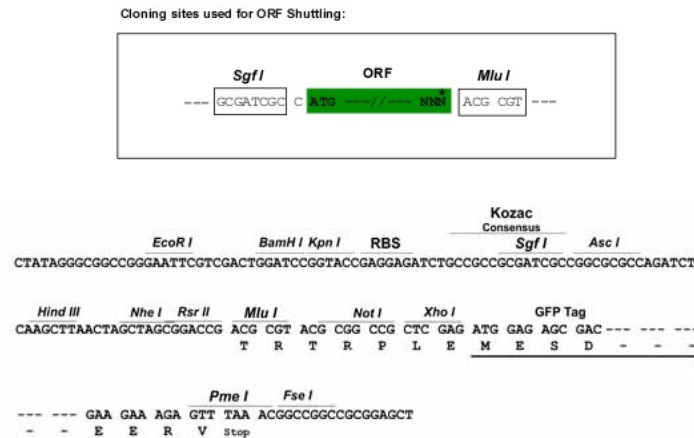
Protein Sequence: >RG216362 representing NM_173512
 Red=Cloning site Green=Tags(s)

MKQAGFPLGILLFLWVSIVTDFSLVLLIKGGALSGTDYQSLVNKTFGFPGYLLLSVLQFLYPFIVDPEN
 VFIGRHFIIGLSTVTFTLPLSLYRNIAKLGKVSLSITGLTTLILGIVMARAIISLGHIPKTEDAWVFAKP
 NAIQAVGVMSFAFICHNSFLVYSSLEPTVAKWSRLIHMSIVISVFICIFFATCGYLTFTGFTQGDLE
 NYCRNDLVTFGRFCYGVTVILTYPMECFVTREVIANVFFGGNLSVFHIVVTVMVITVATLVSLIDCL
 GIVLELNGVLCATPLIFIIIPACYLKLESEPRTHSDKIMSCVMLPIGAVVMVFGFVMAITNTQDCTHGQE
 MFYCFPDNFSLTNTSESHVQQTQLSTLNISIFQ

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173512

ORF Size: 1152 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_173512.1, NP_775783.1

RefSeq Size: 1621 bp

RefSeq ORF: 1155 bp

Locus ID: 151258

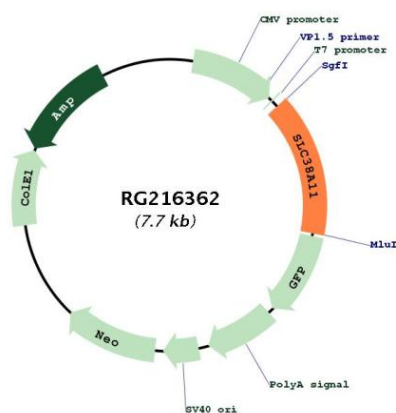
UniProt ID: Q08AI6

Cytogenetics: 2q24.3

Protein Families: Transmembrane

Gene Summary: Putative sodium-dependent amino acid/proton antiporter.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG216362