

Product datasheet for **RG214868**

SLC38A10 (NM_001037984) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC38A10 (NM_001037984) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SLC38A10
Synonyms: PP1744
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG214868 representing NM_001037984
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGACCGCGCCGCCCTCCAACCTGGGGGCTGATCACGAACATCGTGAACAGCATCGTAGGGGTCAGTG
 TCCTCACCATGCCCTTCTGCTTCAAACAGTGGGCATCGTCTGGGGGCGCTGCTCTTGGTCTTCTGCTC
 ATGGATGACGCACCAGTCGTGCATGTTCTTGGTGAAGTCGGCCAGCCTGAGCAAGCGGAGGACCTACGCC
 GGCTGGCATTCCACGCCTACGGGAAGGCAGGCAAGATGCTGGTGGAGACCAGCATGATCGGGCTGATGC
 TGGGCACCTGCATCGCCTTCTACGTCGTGATCGGCGACTTGGGGTCCAACCTCTTTGCCCGCTGTTCCGG
 GTTTCAGGTGGGCGGCACCTTCCGCATGTTCTGCTGTTCCGCGTGTGCGTGTGCATCGTCTCCCGCTC
 AGCCTGCAGCGGAACATGATGGCCTCCATCCAGTCCTTACGCGCCATGGCCCTCCTTCTACACCGTGT
 TCATGTTCTGATCGTGTCTCCTCTCTCAAGCAGGCGCTTTCAGTGGGCAAGTGGCTGCGGCGGGTTCAG
 CTACGTCGCGTGGGAGGGCGTCTCCGCTGCATCCCCATCTTCGGCATGTCCTTCGCTGCCAGTCCCAG
 GTGCTGCCACCTACGACAGCCTGGATGAGCCGTGAGTAAAACCATGAGCTCCATATTTGCTTCTCTCCC
 TTAATGTGGTACCACCTTCTACGTCATGGTGGGGTTTTTCGGTACGTCAGCTTACCAGGCCCACGGC
 CGGCAACGTGCTCATGCACCTTCCCTCCAACCTGGTACGGAGATGCTCCGTGTGGGCTTCATGATGCA
 GTGGCTGTGGGCTTCCCATGATGATCCTGCCATGCAGGCGCCCTGAGCAGCTGCTGTGAGCAGC
 AGCAAAAAGATGGCACCTTTCAGCAGGGGGCTACATGCCCTCTCCGGTTTAAAGCACTTACCCTCTC
 TGTGGTGTGGAAACATGGTGGTGGCATCCTTATCCCAACGTGGAGACCATCCTGGGCTCACAGGA
 GCGACCATGGGAAGCCTCATCTGCTTCTCTGCGCGGCGTGTCTACAAGAAAATCCACAAGAAGCGCAC
 TTTCTCCAGGTGGTGTGTTGGTGGGCTGGGCGTCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 GAGCGAGGAGTCCCGAGGACTTGGCAGAGGAAGCCCTGGCGGCGGCTTGGAGAGGCCGAGGGTTTG
 ATGAAGGTGGAGGAGCGCGGCTCTCAGCCAGGATCCGTTGTGGCCGTGGTGGATGGCCGGGAGA
 AGCCGAAGCTGCCAAGGAGAGAGAGGAGCTGGAGCAGGCCAGATCAAGGGGCCGTGGATGTGCCTGG
 ACGGGAAGATGGCAAGGAGGCACCGGAGGAGGCACAGCTCGATCGCCTGGGCAAGGATTGCTGTGCTT



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GTGGGCGAGGCCACCGCCACGAGCCTCCTGTTCTCACGACAAGGTGGTGGTAGATGAAGGCCAAGACC
 GAGAGGTGCCAGAAGAGAACAACCTCCATCCAGACACGCGGGCGGAAAGGCTCCAGGGGTCCAGGGCCA
 GATGGCGCCGCTCTGCCGACTCAGAAAGAGAGAAAAGAGCCGGAGCAGGGAGAGGTTGGGAAGAGG
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 ATGGTCAGCCAGCTGTCCAGCCTGCAAAGGAGGACCTGGGGCCAGGAGACAGGGGCTGCATCCTCGGCC
 CCAGGCAGTGTCTGTGAGCAGCAGAACGGCCTGGCGTGGTGGAGGGGAAAAGGCCAAGGGGGGACCC
 CGGCCAGCAACGCCCGGGGACACAGGGCAGCCCGCAGAGGACAGCAGCACCAGGTGGGAAGCTCCCC
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 AGCGGGTGGAAACCAGGCGGCCAGCCAGCTGGAGGAAGCTGGCAGGGCGGAGATGCTGGACCACGCCGTC
 CTGCTTACAGTGATCAAAGAACAGCAGGTGCAGCAAAAGCGCTTCTGGACCAGCAGGAGAAGCTGCTGG
 CGGTGATCGAGGAGCAGCACAAGGAGATCCACCAGCAGAGGCAGGAGGACGAGGAGGATAAAACCCAGGCA
 GGTGGAGTGCATCAAGAGCCCGGGGACGCGGTGCCAGAGGCCAGGAGGCCCTGAAGGCAAGGCCAGG
 GAGACGGTGGAGAATCTGCCTCCCTGCCTTTGACCCTGTCTCAGAGCTCCTGGGGGCCGCCCTGCTC
 CATCCCAGGACCTTAACCAGCGTCCCTGGAGCACTCTGAGGGGCTGTGGGCAGAGACCCTGCTGGCCC
 TCCTGACGGCGGCCCTGACACAGAGCCTCGGGCAGCCAGGCCAAGCTGAGAGATGGCCAGAAGGATGCC
 GCCCCAGGGCAGCTGGCACTGTGAAGGAGTCCCAAGGGCCCGGAGCAGGTGCCCGTGCCAGACCCCG
 CCAGGGAAGCCGGGGGCCAGAGGAGCGCCTCGCAGAGGAATTCCTGGGCAAAGTCAGGACGTTACTGG
 CGGTTCCCAAGACAGGAAAAACCTGGGAAGGAGTGGCAGCCACTGGCACCAGCATTCTGAAGGAAGCC
 AACTGGCTCGTGGCAGGGCCAGGAGCAGAGACGGGGGACCTCGCATGAAGCCCAAGCAAGTGAAGCCGAG
 ACCTGGGCTTGCAGCGGACCTGCCCGTGGGGCGGAAGGAGCAGCTGCACAGCCCAGGCTGTGTTACG
 CCAGCCGAACTGCGGGTCACTCTGATGGCGAGCAGGTGGACAGCAGGGCCACCGCTGGACCATGGC
 GGTCACTGGAGATGAGAAAGCCCGCGGGGGGACCAATGTGCTGTGTCCACGAGCAGCCGAGAGGCG
 GGGAGGACGCTGCTGTCCAGGAGCCAGGCAGAGGCCAGAGCAGAGCTGGGGCTCAAACGAGCTGTCCC
 GGGGGCCAGAGCCGGACAATGCCAAGCCCAACCGGGACCTGAAACTGCAGGCTGGCTCCGACCTCCGG
 AGGCGACGGCGGACCTTGGCCCTCATGCAGAGGGTCACTGGCCCGAGGGATGGGGTCACTATTGGCC
 TTAACCCCTGCCTGATGTCCAGGTGAACGACCTCCGTGGCGCCCTGGATGCCAGCTCCGCCAGGCTGC
 GGGGGAGCTCTGCAGGTGGTCCACAGCCGCGAGCTTAGACAGGCGCCTGGGCTCCAGAGGAGTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214868 representing NM_001037984
 Red=Cloning site Green=Tags(s)

MTAAAASNWGLITNIIVNSIVGVSVLTMPPCFKQCGIVLGALLLVFCSWMTHQSCMFLVKSASLSKRRTYA
 GLAFHAYGKAGKMLVETSMIGLMLGTICAFYVYVIGDLGSNFFARLFGFQVGGTFRMFLFAVSLCIVLPL
 SLQRNMMASIQSFSAMALLFYTFVFMFVIVLSSLKHGLFSGQWLRVSYVRWEGVFRICIPIFGMSFACQSQ
 VLPTYDSLDEPSVKTMSIFASSLNVVTFYVMVGFYVVSFTEATAGNVLMHFPSNLVTEMLRVGFMMMS
 VAVGFPMILPCRQALSTLLCEQQQKDGTF AAGGYMPLRFKALTL SVVFGTMVGGILIPNVETILGLTG
 ATMGSLICFICPALIYKKIHKNALSSQVVLWVGLGVLVSTVTTLSVSEEVPEDLAEEAPGGRLEAEGL
 MKVEAARLSAQDPVVAVAEDGREPKLPKERELEQAQIKGPVDVPGREDGKEAPEEAQLDRPGQGI AVP
 VGEAHRHEPPVPHDKVVVDEGDREVPEENKPPSRHAGGKAPGVQGMAPPLPDSEREKQEPEQGEVGR
 PGQAQALEEAGDLPEDPQKVPEADGQPAVQPAKEDLPGPDRGLHPRPQAVLSEQQNGLAVGGGEKAKGGP
 PPGNAAGDTGQPAEDSDHGGKPLPAEKPAAGPGLPPEPREQRDVERAGGNQAASQLEEAGRAEMLDHAV
 LLQVIKEQVQKRLLDQEKLLAVIEEQHKEIHQQRQEDEEDKPRQVEVHQEPGAAVPRGQEAPEGKAR
 ETVENLPLPLDPVLRAPGGRPAPSQDLNQRSLHSEGPVGRDPAGPPDGGPDTEPRAAQAKLRDQKDA
 APRAAGTVKELPKGPEQVPVDPAREAGGPEERLAEFFPGQSQDVTGGSQDRKKPKGEVAATGTSILKEA
 NWLVAGPGAETGDPKPKQVSRDLGLAADLPGGAEGAAAQPAVLRQPELRVSDGEQGGQGHRLDHG
 GHLEMRKARGGDHVPVSHEQPRGGEDA AVQEPQRPEPELGLKRAVPGGQRPDPAKPNRDLKQLAGSCLR
 RRRRDLGPHAEGQLAPRDGVIIGLNPLPDVQVNDLRGALDAQLRQAAGGALQVVHSRQLRQAPGPEES

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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:	<u>NM_001037984.3</u>
RefSeq Size:	4303 bp
RefSeq ORF:	3360 bp
Locus ID:	124565
UniProt ID:	<u>Q9HBR0</u>
Cytogenetics:	17q25.3
Protein Families:	Transmembrane
Gene Summary:	Putative sodium-dependent amino acid/proton antiporter.[UniProtKB/Swiss-Prot Function]