

Product datasheet for **SC305485**

SLC9A7 (NM_032591) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	SLC9A7
Synonyms:	MRX108; NHE-7; NHE7; SLC9A6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC305485 representing NM_032591.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCCTGGTGACGCGGCGCCCTGGCTCGGGTACCGGGGCGCCGCCGCGGCTGCTG
CTGCTGCCGCTGCTGCTGGGTGGGGGCTGCGAGTCGCGGCCGCGCCCTCGGCTCCTCCTCTGGGGCG
GCGGCGGAGGACAGCAGCGCCATGGAGGAGCTCGCTACTGAGAAGGAGGCGGAGGAGAGCCACCGCAA
GACAGCGTGAGCCTGCTCACCTTCATCCTGCTGCTCACGCTCACCATCCTCACCATCTGGCTCTTCAAG
CACGCCGGGTGCGCTTCTGCACGAGACCGGGCTGGCCATGATCTATGGGCTCATCGTTGGGGTGATC
CTGAGGTATGGTACCCCTGCTACCACTGGCCGTGACAAATCACTCAGCTGCACCTCAGGAAGACAGGGCC
TTCAGTACCTTATTAGTGAATGTGAGCGGAAAGTTCTTGAATACACTCTGAAAGGAGAAATCAGTCCT
GGCAAGATCAACAGCGTAGAGCAGAAATGATATGCTACGGAAGGTAACATTTCGATCCAGAAGTATTTTC
AACATTCCTTCTGCTCAATTATTTTTCATGCTGGATACAGCTTAAGAAGAGACACTTTTTCAGAAAT
CTTGGATCTATACTGGCCTATGCCTTCTTGGGACTGCTGTTTCATGCTTCATTATTGAAATCTCATG
TATGGTGTGGTGAAGCTCATGAAGATTATGGGACAGCTCTCAGATAAATTTTACTACACAGATTGTCTC
TTTTTGGAGCAATCATCTCTGCCACTGACCCAGTGACTGTGCTGGCGATATTAATGAATTGCATGCA
GACGTGGATCTTACGCACTCTTTTTGGAGAGAGCGTCTAAATGATGCTGTTGCCATTGTACTGTCC
TCGCTATTGTTGCCTACGAGCAGCGGACTGAACACTCAGCCTTTGATGCTGCTGCCTTTTTTAAG
TCAGTTGGCATTTTTCTAGGTATATTTAGTGGCTCTTTTACCATGGGAGCTGTGACTGGTGTAAATGCC
AACGTGACTAAGTTTACAAACTGCACTGCTTCCCTGCTGGAGAGCGCGCTGTTCTTCTCATGTCC
TGGAGCACGTTTCTTGGCAGAAGCCTGCGGATTTACAGGTGTTGTAGCTGTCCTTTTCTGTGGAATC
ACACAAGCTCATTACCTACAACAATCTGTGCGTGAATCAAGAAGTGAACCAAGCAGCTCTTTGAG
GTGTTACATTTCTGGCAGAGAACTTCATCTTCTCTACATGGGCTGGCACTGTTTACCTTCCAGAAG
CACGTTTTAGCCCCATTTTCATCATCGGAGCTTTTGTGTCATCTTCTGGGAGAGCCGCGCACATC
TACCCGCTCTCTTCTTCTCAACTGGGAGAGGCAATAAGATTGGTGGAAATTTCAACACATGATG
ATGTTTTAGGCTCAGGGAGCAATGGCATTGCGTTGGCCATCCGTGACACGGCATCCTATGCTCGC
CAGATGATGTTACGACCACTTCTCATTGTGTTCTTCACTGTCTGGATCATTGGAGGAGGACGACACA
CCCATGTTGTGATGGCTTAACATCAGAGTTGGCGTCGAGGAGCCCTCCGAAGAGGAGCAGAATGAACAC
CACTGGCAGTACTTCAGAGTTGGTGTGACCCGATCAAGACCCACCCCAACACAGAGCTTTCAA
GTCTTACAAGGGGACGCGCCAGATTCTGCCAGAGGAAACCGGACAAAACAGGAGAGCGCATGGATATTC
AGGCTGTGGTACAGCTTTGATCACAATTACCTGAAGCCCATCTCACACAGTGGTCCCCCACTAAC
ACCACGCTCCCCGCTGGTGTGGCTTACTAGCTCGATGTCTGACCAAGTCCCGAGGTGTACGATAACCAA
GAGCCACTGAGAGAGGAAGACTCTGATTTTCATCTGACCGAAGGCGACCTGACATTGACCTACGGGGAC
AGCAGAGTACTGCAAAATGGCTCCTCAAGTTCGACACCCGCTCCACGAGTCTGGAGGGCAGCCGGAGA
ACGAAGAGCAGCTCGGAGGAAGTGTGGAGCGAGACCTGGGAATGGGAGACCAGAAGTTTCGAGCCGG
GGCACCCGCTAGTGTTCCTTGGAGATAATGCTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

SgfI-MluI

ACCN:

NM_032591

Insert Size:

2178 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_032591.2
RefSeq Size:	10038 bp
RefSeq ORF:	2178 bp
Locus ID:	84679
UniProt ID:	Q96T83
Cytogenetics:	Xp11.3
Protein Families:	Druggable Genome, Transmembrane
MW:	80.1 kDa
Gene Summary:	This gene encodes a sodium and potassium/ proton antiporter that is a member of the solute carrier family 9 protein family. The encoded protein is primarily localized to the trans-Golgi network and is involved in maintaining pH homeostasis in organelles along the secretory and endocytic pathways. This protein may enhance cell growth of certain breast tumors. This gene is part of a gene cluster on chromosome Xp11.23. A pseudogene of this gene is found on chromosome 12. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2012] Transcript Variant: This variant (2) uses two alternate in-frame splice sites in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.