

Product datasheet for **RC216350**

SLC7A13 (NM_138817) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC7A13 (NM_138817) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC7A13
Synonyms:	AGT-1; AGT1; XAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC216350 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATAGAGGGGAGAAAATACAGCTCAAGAGAGTGTGGATATTGGTGGGACACAAGTTTTTGGCTTA
 TTAATATCATTGGTGCAGGAATTTTGTGTCCCCAAAGGTGTGTGGCATACTCTGCATGAACGTGGG
 AGTCTCCCTGTGCGTTTGGGCTGGCTGTGCCATACTGGCCATGACATCAACTCTTTGCTCTGCAGAGATA
 AGTATAAGCTTCCCATGCAGTGGAGCTCAATACTATTTTCTCAAGAGATACTTTGGCTCCACGGTTGCTT
 TTTTGAATCTCTGGACATCCTTGTCTGGGGTCAAGGGTGTGGTGGCCAAGCTCTGCTCCTTGTCTGA
 GTACAGCATCCAGCCTTTTTTCCAGCTGTCTGTCCAAAGCTGCCTAAGAAATGTCTGGCATTGGCC
 ATGTTGTGGATTGTAGGAATTCTGACTTCTCGTGGTGTGAAAGAAGTGACTTGGCTTCAGATAGCTAGCT
 CAGTGTCTGAAAGTGTCCATACTAGCTTCAATTTCCCTAACTGGAGTAGTGTCTGATAAGAGGGAAAAA
 GGAGAATGTAGAAGGATTTCAGAATGCTTTTGTGCTGAACTTCCAGATATCTCTCACCTTATACAAGCC
 ATCTTCCAAGGATATTTTGCATATTCAGGCGGGGCGATGCTTTACACTTATAGCAGGGGAGCTGAAGAAGC
 CCAGAACAACAATTCCCAATGCATATTTACTGCGTTACCTCTGATGACTGTAGTTTATTTACTGGTTAA
 CATTTCTATCTGACTGTTCTGACACCCAGGAAATTTCTCTTCAGATGCTGTAGCTATCACATGGGCT
 GATCGAGCTTTTCCCTCATTAGCATGGATTATGCCTTTTGCTATTTCTACCTCATTATTTAGCAACCTTC
 TGATTTCTATATTTAAATCATCGAGACCAATATATCTTGCAAGCCAAGAGGGCCAGCTGCCTTTGCTATT
 TAATACTTAATAAGTCACTCTTCTCCATTTACAGCTGTGCTACTACTTGTCACTTTGGGATCCCTTGCA
 ATTATCTTAACAAGTCTAATTGATTGTAAACTATATTTTTTACGGGTTTATTATGGTCTATATTAT
 TAATGATAGGAATACTAAGGCGGAGATACCAGGAACCAATCTATCTATACCTTATAAGGTGTTTTGTGTC
 ATTTCCATTAGCAACAATAGTCATCGACGTGGGCTTGGTTGTGATACCATTGGTAAAGTCTCCAAATGTG
 CATTATGTCTACGTGCTTCTGTTAGTTCTCAGCGGATTACTATTTTACATACCTTAAATACATTTAAAAA
 TAAGATTGGCTTGGTTTGAGAAGATGACTTGCTATTTACAATTACTATTTAATTTGCCTCCCTGATGT
 GTCTGAGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216350 protein sequence
 Red=Cloning site Green=Tags(s)

MDRGEKIQLKRVFGYWWGTSFLLINIIGAGIFVSPKGVLAYSCMNVGVSLCVWAGCAILAMTSTLCSAEI
 SISFPCSGAQYYFLKRYFGSTVAFLNLWTSFLGSGVVAGQALLAEYSIQPFPPSCSVPKLPKKCLALA
 MLWIVGILTSRGVKEVTWLQIASSVLKVSILSFISLTGVVFLIRGKKENVERFQNAFDAELPDISHLIQA
 IFQGYFAYSGGACFTLIAGELKKPRTTIPKIFTALPLMTVVYLLVNISYLTVLTPREILSSDAVAITWA
 DRAFPPLAWIMPFAISTLSFNLLISIFKSSRPYILASQEQQLPLLFNTLNSHSPFTAVLLLVTLGSLA
 IILTSLIDLINYYFTGSLWSILLMIGILRRRYQEPNLSIPYKVFLSFPLATIVIDVGLVVIPLVKSPNV
 HYVVVLLLVLGLLFYIPLIHFKIRLAWFEKMTCYLQLLFNICLPDVSEE

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

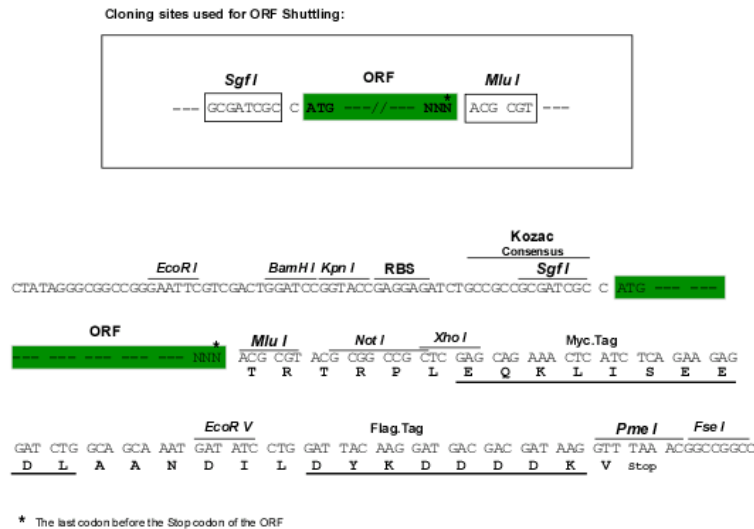
Chromatograms:

https://cdn.origene.com/chromatograms/mk6441_g11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_138817

ORF Size: 1410 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_138817.1](#)

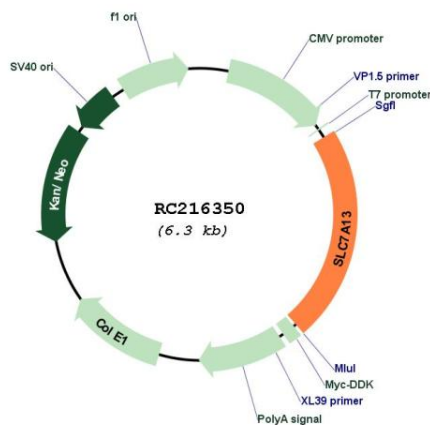
RefSeq Size: 1865 bp

RefSeq ORF: 1413 bp

Locus ID: 157724

UniProt ID:	<u>Q8TCU3</u>
Cytogenetics:	8q21.3
Protein Families:	Druggable Genome, Transmembrane
MW:	52.1 kDa
Gene Summary:	Mediates the transport L-aspartate and L-glutamate in a sodium-independent manner. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC216350