

Product datasheet for **RG208443**

SLC15A2 (NM_021082) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | SLC15A2 (NM_021082) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | SLC15A2 |
| Synonyms: | PEPT2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide
Sequence:

>RG208443 representing NM_021082
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATCCTTTCCAGAAAAATGAGTCCAAGGAACTCTTTTTTACCTGTCTCCATTGAAGAGGTACCAC
CTCGACCACCTAGCCCTCAAAGAAGCCATCTCGACAATCTGTGGCTCCAACCTATCCACTGAGCATTGC
CTTCATTGTGGTGAATGAATTCTGCGAGCGCTTTTCTATTATGGAATGAAAGCTGTGCTGATCCTGTAT
TTCCTGTATTTCTGCACTGGAATGAAGATACCTCCACATCTATATACCATGCCTTCAGCAGCCTCTGTT
ATTTTACTCCCATCCTGGGAGCAGCCATTGCTGACTCGTGGTTGGGAAAAATCAAGACAATCATCTATCT
CTCCTTGGTGTATGTGCTTGGCCATGTGATCAAGTCTTGGTGCCTTACCAATACTGGGAGGACAAGTG
GTACACACAGTCTATCATTGATCGGCCTGAGTCTAATAGCTTTGGGACAGGAGGCATCAAACCCCTGTG
TGGCAGCTTTTGGTGGAGACCAGTTTGAAGAAAAACATGCAGAGGAACGGACTAGATACTTCTCAGTCTT
CTACCTGTCCATCAATGCAGGGAGCTTGTATTTCTACATTTATCACACCCATGCTGAGAGGAGATGTGCAA
TGTTTTGGAGAAGACTGCTATGCATTGGCTTTTGGAGTTCAGGACTGCTCATGGTAATTGCACTTGTG
TGTTTTGCAATGGGAAGCAAAATATAAATAAACACCCCTGAAGGAAACATAGTGGCTCAAGTTTTCAA
ATGTATCTGGTTTCTATTTCCAATCGTTTCAAGAACCCTTCTGGAGACATTCCAAGCGCAGCAGCTGG
CTAGACTGGGCGGCTGAGAAATATCAAAGCAGCTCATTATGGATGTAAGGCACTGACCAGGGTACTAT
TCCTTTATATCCCATTGCCCATGTTCTGGGCTCTTTGGATCAGCAGGGTTCACGATGGACTTTGCAAGC
CATCAGGATGAATAGGAATTTGGGGTTTTTGTGCTTCAGCCGGACCAGATGCAGTTCATAATCCCCTT
CTGGTCTTATCTTCATCCGTTGTTGACTTTGTCATTTATCGTCTGGTCTCCAAGTGTGGAATTAAC
TCTCATCACTTAGGAAAATGGCTGTTGGTATGATCCTAGCATGCCTGGCATTGTCAGTTGCGGCAGTGT
AGAGATAAAAAATAAATGAAATGGCCCCAGCCAGGTCGCCAGGAGTTTTCTACAAGTCTTGAAT
CTGGCAGATGATGAGGTGAAGGTGACAGTGGTGGGAAATGAAAACAATTCTGTTGATAGAGTCCATCA
AATCCTTTGAGAAAACACCACACTATTCAAAATGCACCTGAAAACAAAAAGCCAGGATTTTCACTTCCA
CCTGAAATATCACAATTTGTCTCTCTACACTGAGCATTCTGTGCAGGAGAAGAACTGGTACAGTCTTGTC
ATTCGTGAAGATGGGAACAGTATCTCCAGCATGATGGTAAAGGATACAGAAAGCAGAAACAACCAATGGGA
TGACAACCGTGAGGTTTGTAACTTTGCATAAAGATGTCAACATCTCCCTGAGTACAGATACCTCTCT
CAATGTTGGTGAAGACTATGGTGTGTCTGCTTATAGAAGTGTGCAAAGAGGAGAATACCCTGCAGTGCAC
TGTAGAACAGAAGATAAGAATTTTCTCTGAATTTGGGCTTCTAGACTTTGGTGCAGCATATCTGTTTG
TTATTACTAATAACACCAATCAGGGTCTCAGGCCTGGAAGATTGAAGACATTCCAGCCAACAAAATGTC
CATTGCGTGGCAGCTACCACAATATGCCCTGGTTACAGCTGGGGAGGTCTATGTTCTCTGTACAGGTCTT
GAGTTTTCTTATTCTCAGGCTCCCTCTGGCATGAAATCTGTGCTCCAGGCAGCTTGGCTATTGACAATTG
CAGTTGGGAATATCATCGTGCTTGTGTGGCACAGTTCAGTGGCCTGGTACAGTGGGCCGAATTCATTTT
GTTTTCTGCCTCCTGCTGGTGTCTGCCTGATCTTCCATCATGGGCTACTACTATGTTCTGTAAAG
ACAGAGGATATGCGGGTCCAGCAGATAAGCACATTCCTCACATCCAGGGGAACATGATCAAACCTAGAGA
CCAAGAAGACAAAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208443 representing NM_021082
 Red=Cloning site Green=Tags(s)

MNPFQKNESKETLFSVPSIEEVPPRPPSPPKKPSPTICGSNYPLSIAFIVVNEFCERFSYYGMKAVLILY
 FLYFLHWNEDTSTSIYHAFSSLCYFTPILGAAIADSWLGKFKTIIYLSLVVYVLGHVIKSLGALPILGGQV
 VHTVLSLIGLSLIALGTGGIKPCVAAFGGDQFEEKHAEERTRYFSVFYLSINAGSLISTFITPMLRGDVQ
 CFGEDCYALAFGVPGLLMVIALVVFAMGSKIYINKPPPEGNIVAQVFKCIWF A ISNRFKNRSGDIPKRQHW
 LDWAAEKYPKQLIMDVKALTRVLFYIPLPMFWALLDQQGSRWTLQAIRMNRNLGFFVLQPDQMQLNPL
 LVLIFIPLDFVYIYRLVSKCGINFSSLRKMAVGMILACLAFVAAAIVEIKINEMAPAQPQPQEVFLQVLN
 LADDEVKVTVVGNNENSLIESIKSFQKTPHYSKLHLKTKSQDFHFHLKYHNL SLYTEHSVQEKWNYSLV
 IREDGNSISSMMVKDTESTRTTNGMTTVRFVNTLHKDVNISLSTDTSLNVGEDYGVSAVRTVQRGEYPAVH
 CRTEDKNFSLNLGLLDFGAAYLFVITNNTNQLQAWKIEDIPANKMSIAWQLPQYALVTAGEVMFSVTGL
 EFSYSQAPSGMKSVLQAAWLLTIAVGNIIVLVVAQFSGLVQWAEFILFSCLLLVICLIFSIMGYVYVVK
 TEDMRGPADKHIPHIQGNMIKLETKKTKL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021082

ORF Size: 2187 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_021082.2](#), [NP_066568.2](#)

RefSeq Size: 2846 bp

RefSeq ORF: 2190 bp

Locus ID: 6565

UniProt ID: [Q16348](#)

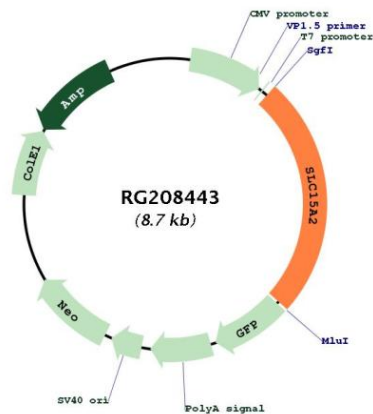
Cytogenetics: 3q13.33

Domains: PTR2

Protein Families: Transmembrane

Gene Summary: The mammalian kidney expresses a proton-coupled peptide transporter that is responsible for the absorption of small peptides, as well as beta-lactam antibiotics and other peptide-like drugs, from the tubular filtrate. This transporter, SLC15A2, belongs to the same gene family as SLC15A1 (MIM 600544), the proton-coupled peptide transporter found in the small intestine (Liu et al, 1995 [PubMed 7756356]).[supplied by OMIM, Feb 2011]

Product images:



Circular map for RG208443