

Product datasheet for **RR213182**

Slc15a2 (NM_031672) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc15a2 (NM_031672) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc15a2
Synonyms:	MGC91625
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-Myc-DDK (PS100007)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RR213182 representing NM_031672
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCTTGAGGAGAGAGAGTAAGGAGCCAGCCATGAATCCTTTCCAGAAAAATGAGTCCAAGGAAACGC
 TTTTTTACCTGTCTCTACTGAGGAGATGCTGCCTAGACCTCCGAGCCCTCCAAAGAAGTCACTCCGAA
 AATCTTTGGCTCCAGCTACCCAGTCAGCATTGCCTTCATCGTGGTGAATGAATCTGCGAGCGATTTTCC
 TATTATGGCATGAAAGCTGTGCTGACCTTGACTTCTGTATTTCTGCACTGGAATGAAGACACGTCCA
 CCTCTGTCTACCATGCCTTCAGCAGCCTCTGCTATTTCACTCCCATCTTGGGTGCGGCCATTGCTGACTC
 CTGGCTGGGAAAATTCAAGACAATCATCTATCTCTCCCTGGTGTATGTTCTTGGCCATGTATTCAAGTCT
 TTGGGTGCCATACCAATACTGGGAGGAAAATGCTACATAAATCTTATCATTGGTTGGTCTGAGTCTAA
 TTGCTCTGGGAACAGGAGGTATCAAACCCTGTGTGGCAGCTTTCGGCGGAGACCAGTTTGAAGGGAACA
 TGCAGAGGCACGGACTAGATACTTCTCAGTCTTCTACCTCGCCATCAATGCGGGGAGCTTGATTTCCAGC
 TTCATCACACCCATGCTGAGAGGAGATGTGAAGTGTTCGGCCAAGACTGCTATGCACTGGCTTTTGGAG
 TTCCAGGATTGCTCATGGTGTGGCACTTGTGTGTTTGAATGGGAAGCAAGATGTACAGGAAACCACC
 TCCTGAAGGGAACATAGTGGCTCAAGTTATCAAATGCATATGGTTTGTCTCTGCAACCGCTTCAGGAAC
 CGTTCTGGGGACCTCCGAAGCGACAACACTGGCTAGACTGGGCAGCAGAAAAATATCCAAGCATCTCA
 TCGCAGATGTGAAGGCCCTGACCAGGGTACTGTTTCTTATATCCCACTGCCATGTTCTGGGCACCTTT
 GGACCAACAGGGCTCGCGGTGGACTCTGCAAGCTAACAAAGATGAATGGTACTTGGGTTTTTTGTACTT
 CAGCCGGATCAGATGCAGGTGCTAAATCCCTTTCTGGTCTTATCTTATCCCTTGTGTTGACCTGTCA
 TTTACCGGCTGATCTCCAAGTGCAGAATTAACCTCTCATCACTCAGGAAAATGGCAGATTTGGTATGATCCT
 AGCGTGGCTTGGCTTTTGCAGTTGCAGCACTTGTGAGACAAAAATAAATGGAATGATCCATCCCCAGCCA
 GCTTCCCAAGAGATATTTTTACAAGTCTTGAATTTGGCAGATGGTGTAAAGGTGACCGTGTGGGCA
 GTAGAAAATAATTCTCTTGGTGGAGTCCGTCAGCTCTTTTCCAGAACACAACGCACTATTCAAACTACA
 CCTGGAGGCAAAGAGCCAAGATTTACATTTTCTGAAGTATAACAGCTTGTCTGTCCACAATGACCAT
 TCTGTAGAGGAGAAGAACTGTTACCAGCTGCTCATTACCAGGACGGGAGAGTATCTCCAGCATGCTGG
 TCAAGGATACAGGAATCAAACCAGCCAATGGGATGGCAGCCATCAGGTTTATTAACACTTGCATAAAGA
 CTTGAACATCTCCTTGGATACAGACGCTCCTCTCAGCGTGGGCAAAGACTACGGAGTGTCTGCATACAGA
 ACTGTGCTAAGAGGAAAGTATCCTGCAGTGCCTGTGAAACTGAAGACAAAGTCTTTTCTCTCGATTTAG
 GTCAACTAGACTTTGGTACAACATATTTGTTCTGATCACTAATATCACCAGTCAGGGTCTTCAGGCCTG
 GAAGGCAGAGGACATTCAGTCAATAAACTATCCATTGCATGGCAGCTACCACAGTATGTCTGGTTACA
 GCAGCAGAGGTGATGTTCTCAGTCACAGGACTTGAATTTTCTTATTCTCAGGCACCATCTAGCATGAAAT
 CTGTGCTCCAGGCGGCCTGGTTGTTGACCGTTGCAGTTGGGAATATCATTGTGCTTGTGCTGGCTCAGTT
 CAGTGGCTGGCACAGTGGGCGGAGTTCGTTTTGTTTTCTGCCTCCTCTGGTGGTCTGCCTGATCTTC
 TCCGTCATGGCCTACTACTACGTTCTCTAAAGTCAGAAGATACCCGTGAGGCAACAGATAAGCAGATTC
 CTGCCGTGAGGGGAATATGATTAACCTAGAAACCAAGAATAACAAGGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213182 representing NM_031672
 Red=Cloning site Green=Tags(s)

MLEERESKEPAMNPFQKNESKETLFSVSTEEMLPRPPSPPKSPPKIFGSSYPVSIAFIVNEFCERFS
 YYGMKAVLTLFYLFHWNEDTSTSVYHAFSSLCYFTPILGAAIADSWLGKFKTIIYLSLVYVLGHVFKS
 LGAIPIILGGKMLHTILSLVGLSLIALGTGGIKPCVAAFGGDQFEEEHAEARTRYFSV FYLAINAGSLIST
 FITPMLRGDVKCFGQDCYALAFGVPGLLMVLALVVFAMGSKMYRKPPEGNIVAQVIKCIWFALCNFRFN
 RSGDLPKRQHWLDWAAEKYPKHLIADV KALTRVLFYIPLPMFWALLDQQGSRWTLQANKMNGDLGFFVL
 QPDQMQLNPFLVLI FIPFLDIYRILISKCRIN FSSLRKMAVGMILACLAFAVAALVETKINGMIHPQP
 ASQEIFLQVLNLADGDVKVTVLGSRRNSLLVESVSSFNQNTTHYSKLHLEAKSQDLHFHLKYNSLSVHNDH
 SVEEKNCYQLLIHQDGESISSMLVKDTGIKPANGMAAIRFINTLHKDLNISLDTDAPLSVGKDYGVSA
 TVLRGKYPVHCETEDKVFSLDLGQLDFGTTYLFVITNITSQGLQAWKAEDIPVNKLSIAWQLPQYVLT
 AAEVMFSVTGLEFSYSQAPSSMKSVLQAALLTVAVGNIIVLVVAQFSGLAQWAEVFLSCLLLVCLIF
 SVMAYYYVPLKSEDTREATDKQIPAVQGNMINLETKNTRL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2632_h07.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_031672

ORF Size: 2220 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<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_031672.2, NP_113860.2</u>
RefSeq Size:	3923 bp
RefSeq ORF:	2223 bp
Locus ID:	60577
Cytogenetics:	11q21
MW:	83.1 kDa
Gene Summary:	acts as a high affinity proton dependent peptide transporter; may transport peptides from cerebrospinal fluid to blood [RGD, Feb 2006]