

## Product datasheet for **MR222805**

### **Slc15a1 (NM\_053079) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc15a1 (NM_053079) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc15a1
Synonyms:	D630032F02; PECT1; PEPT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR222805 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGGGATGTCCAAGTCTCGGGTTGCTTCGGTTACCCGTTGAGCATCTTCTTCATCGTGGTCAATGAAT  
 TCTGTGAAAGATTCTCCTACTATGGCATGCGAGCACTCCTGGTTCTGTACTTCCGGAACCTCCTCGGCTG  
 GGATGACGATCTCTCCACGGCCATTTACCATACGTTTCGTTGCCCTCTGCTACCTGACTCCAATTCTTGGA  
 GCTCTGATCGCAGACTCGTGGCTGGGGAAGTTCAAGACAATTGTTTCACTATCCATCGTCTACACGATTG  
 GACAAGCAGTCATCTCGGTGAGCTCAATTAATGACCTCACAGACCAGACCACAATGGCAGTCTGACAG  
 CCTTCCCGTGCACGTAGCACTGTCCATGGTTGGCCTGGCCCTGATAGCCCTTGGTACAGGAGGAATCAAG  
 CCCTGTGTGTCTGCGTTTGGTGGCGATCAGTTTGAAGAGGGTCAGGAAAAACAGCGAAACCGGTTCTTTT  
 CCATCTTTTATTTGGCTATCAACGGGGGAAGCCTGCTCTCCACGATCATCACTCCCATACTCAGAGTTCA  
 ACAGTGCAGGAATCCACAGTCAACAAGCTTGTACCCTGACCTTCGGGGTTCCAGCGGCTCTCATGGCT  
 GTTGCCCTAATTGTGTTTGCCTTGGCAGTGGAATGTACAAGAAGTTCAGCCCCAGGGCAACATCATGG  
 GCAAAGTGGCCAAGTGCATTGGTTTTGCCATCAAAAACAGGTTTCGGCACCGAAGTAAGGCATATCCCAA  
 GAGGGAGCACTGGCTGGACTGGGCTAAAGAGAAAACGACGAGCGGCTCATCTCAGATTAAGATGGTC  
 ACGAAGGTGATGTTTCTGTACATCCCACTCCCCATGTTCTGGGCCTTGTGGTACCAGCAGGGTCCAGAT  
 GGCACTGCAAGCAACGACCATGAATGGGAAAATTGGAGCAATTGAAATTCAGCCGGACAGATGCAGAC  
 GGTGAATGCCATCTTGATTGTATCATGGTCCCCATTGTGGACGCTGTGGTGTACCCGCTCATTGCAAAA  
 TGTGGTTTCAACTTCACATCCCTGAAGAAGATGACTGTTGGATGTTTCTGGCGTCCATGGCCTTTGTGG  
 TGGCTGCAATTGTGCAAGTGGAAATCGATAAAACTCTCCAGTCTCCCTGGTGGAAATCAAGTCCAAAT  
 TAAGGTCTTGAACATCGGAAACAATAACATGACCGTGCAATTTTCTGGAATAGTGTGACGCTTGCCCAA  
 ATGCTCTCAGACAGACAGTTCATGACTTTCGATATAGACAAGCTGACAAGCATAAACATATCTTCTCTG  
 GATCCCCAGGAGTACCACAGTAGCTCATGATTTTGGAGAGGTCACCGGCACACCCTTCTAGTGTGGAA  
 CCCCAGTCAATACCGTGTGGTAAAAGATGGTCTTAACCAAAAGCCAGAGAAAGGGGAGAACGGAATCAGG  
 TTTGTCAACACCCTAACGAGATGGTCACCATCAAAATGAGTGGGAAAGTATATGAAAATGTCACCAGTC  
 ACAACGCCAGCGGCTACCAGTCTTCCCTTCTGGCGAAAAACAGTACACAATAAACACCACGGCGGTGGC  
 ACCAACCTGTCTAACTGATTTTAAATCTCCAACCTTGACTTTGGCAGCGCGTATACCTACGTGATCCGA  
 AGGGCAGTGATGGCTGCCTGGAAGTGAAGGAATTTGAAGACATCCACCCAACACTGTGAACATGGCTC  
 TGCAATCCCACAGTACTTCTTCTCACCTGCGCGAGGTGGTCTTCTGTGTACAGGACTGGAGTTCTC  
 TTATTCACAGGCTCCGTCTAACATGAAGTCCGTGCTTCAGGCAGGCTGGCTTCTAACTGTGGCAGTCCGGC  
 AATATCATTGTGCTCATCGTGGCAGGGCGGGCACTTCCCCAACAGTGGGCTGAGTACATTCTGTTTG  
 CCTCATTGCTTCTGGTTGTCTGCGTGATATTCGCCATCATGGCTCGATTCTACACCTACATCAACCCAGC  
 AGAGATTGAAGCACAGTTTGTGAGGATGAGAAGAAAAAGGGCATAGGAAAGGAAAAACCGTATTCTTCA  
 TTGGAACCAAGTCTCACAGACAAATATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR222805 protein sequence  
Red=Cloning site Green=Tags(s)

MGMSKSRGCGFYPLSIFFIVVNEFCERFSYYGMRALLVL YFRNFLGWDDDLSTAIYHTFVALCYLTPILG  
 ALIADSWLGKFKTIVLSIVYTIQAVISVSSINDLTDHDHNGSPDPLVHVALSMVGLALIALGTGGIK  
 PCVSAFGGDQFEEGQEQQRNRF SIFYLAINGSSLLSTIITPILRVQCGIHSQQACYPLAFGVPAALMA  
 VALIVFVLGSGMYKKFQPQGNIMGKVAKCIGFAIKNRFHRHSKAYPKREHWDWAKEKYDERLISQIKMV  
 TKVMFLYIPLPMFWALFDQQGSRWTLQATTMNGKIGAIEIQPDQMOTVNAILIVIMVPIVDVAVVPLIAK  
 CGFNFTSLKKMTVGMFLASMAFVVAIVQVEIDKTLPVFPGNQVQIKVLNIGNNMVHFPGNSVTLAQ  
 MSQTDTFMTFDIDLKTSINISSSGSPGVTVAHDFEQGHRHTLLVWNPSQYRVVKDGLNQKPEKGENGIR  
 FVNTLNEMVTIKMSGKVENVTSHNASGYQFFPSGEKQYINTTAVAPTCLTDFKSSNLDFGSAYTYVIR  
 RASDGCLEVKEFEDIPPNTVNMALQIPQYFLLTCGEVVF SVTGLEFSYSQAPS NMKSVLQAGWLLTVAVG  
 NIIVLIVAGAGHFPKQWAEYILFASLLL VVCVIFAIMARFYTYINPAEIEAQFDEDEK KKGIGKENPYSS  
 LEPVSQTNM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_053079

**ORF Size:** 2130 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\\_053079.2](#), [NP\\_444309.2](#)

**RefSeq Size:** 3123 bp

**RefSeq ORF:** 2130 bp

**Locus ID:** 56643

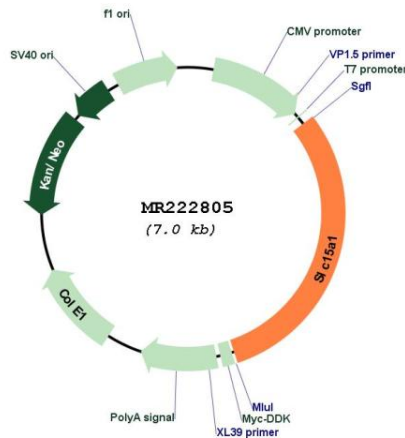
**UniProt ID:** [Q9JIP7](#)

**Cytogenetics:** 14 E5

**MW:** 78.6 kDa

**Gene Summary:** Proton-coupled intake of oligopeptides of 2 to 4 amino acids with a preference for dipeptides. May constitute a major route for the absorption of protein digestion end-products (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR222805