

Product datasheet for **MG222805**

Slc15a1 (NM_053079) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc15a1 (NM_053079) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc15a1
Synonyms:	D630032F02; PECT1; PEPT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG222805 representing NM_053079
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGATGTCCAAGTCTCGGGTTGCTTCGGTTACCCGTTGAGCATCTTCTTCATCGTGGTCAATGAAT
TCTGTGAAAGATTCTCCTACTATGGCATGCGAGCACTCCTGGTTCTGTACTTCCGGAACCTCCTCGGCTG
GGATGACGATCTCTCCACGGCCATTTACCATACGTTTCGTTGCCCTCTGCTACCTGACTCCAATTCTTGGA
GCTCTGATCGCAGACTCGTGGCTGGGGAAGTTCAAGACAATTGTTTCACTATCCATCGTCTACACGATTG
GACAAGCAGTCATCTCGGTGAGCTCAATTAATGACCTCACAGACCAGACCACAATGGCAGTCTGACAG
CCTTCCCGTGCACGTAGCACTGTCCATGGTTGGCCTGGCCCTGATAGCCCTTGGTACAGGAGGAATCAAG
CCCTGTGTGTCTGCGTTTGGTGGCGATCAGTTGAAGAGGGTCAGGAAAAACAGCGAAACCGGTTCTTTT
CCATCTTTTATTTGGCTATCAACGGGGGAAGCCTGCTCTCCACGATCATCACTCCCATACTCAGAGTTCA
ACAGTGCAGCAATCCACAGTCAACAAGCTTGTACCCTGACCTTCGGGGTTCCAGCGGCTCTCATGGCT
GTTGCCCTAATTGTGTTTGCCTTGGCAGTGGAATGTACAAGAAGTTCAGCCCCAGGGCAACATCATGG
GCAAAGTGGCCAAGTGCATTGGTTTTGCCATCAAAAACAGGTTTCGGCACCGAAGTAAGGCATATCCCAA
GAGGGAGCACTGGCTGGACTGGCTAAAGAGAAAACGACGAGCGGCTCATCTCAGATTAAGATGGTC
ACGAAGGTGATGTTCTGTACATCCCACTCCCCATGTTCTGGGCCTTGTGACCAGCAGGGTCCAGAT
GGACACTGCAAGCAACGACCATGAATGGGAAAATTGGAGCAATTGAAATTCAGCCGGACCAGATGCAGAC
GGTGAATGCCATCTTGATGTATCATGGTCCCCATTGTGGACGCTGTGGTGTACCCGCTCATTGCAAAA
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TTATTCACAGGCTCCGTCTAACATGAAGTCCGTGCTTCAGGCAGGCTGGCTTCTAACTGTGGCAGTCCGG
AATATCATTGTGCTCATCGTGGCAGGGCGGGCACTTCCCCAACAGTGGGCTGAGTACATTCTGTTTG
CCTCATTGCTTCTGGTTGTCTGCGTGATATTCGCCATCATGGCTCGATTCTACACCTACATCAACCCAGC
AGAGATTGAAGCACAGTTTGTGAGGATGAGAAGAAAAAGGCATAGGAAAGGAAAACCCGATTCTTCA
TTGGAACCACTCTCACAGACAAATATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222805 representing NM_053079
 Red=Cloning site Green=Tags(s)

MGMSKSRGCGFYPLSIFFIVVNEFCERFSYYGMRALLVLVYFRNFLGWDDDLSTAIYHTFVALCYLTPILG
 ALIADSWLGKFKTIVLSIVYTIQQAVISVSSINDLTDHDHNGSPDSLPHVVALSMVGLALIALGTGGIK
 PCVSAFGGDQFEEGQEKQRNRFSSIFYLAINGGSLSTIITPILRVQQCGIHSQQACYPLAFGVPAALMA
 VALIVFVLGSGMYKKFQPQGNIMGKVAKICGFAIKNRFHRHSKAYPKREHLDWAKEKYDERLISQIKMV
 TKVMFLYIPLPMFWALFDQQGSRWTLQATTMNGKIGAIEIQPDQMOTVNAILIVIMVPIVDVVYPLIAK
 CGFNFTSLKKMTVGMFLASMAFVVAIVQVEIDKTLPVFPGGNQVQIKVLNIGNNMVHFPGNSVTLAQ
 MSQTDTFMTFDIDKLT SINISSGSPGVTTVAHDFEQGHRHTLLVWNPSQYRVVKDGLNQKPEKGENGIR
 FVNTLNEMVTIKMSGKVYENVTSHNASGYQFFPSGEKQYINTTAVAPTCLTDFKSSNLDFGSAYTYVIR
 RASDGCLEVKEFEDI PPNTVNMALQIPQYFLLTCGEVVF SVTGLEFSYSQAPS NMKSVLQAGWLLTVAVG
 NIIIVLIVAGAGHFPKQWAEYILFASLLL VVCVIFAIMARFYTYINPAEIEAQFDEDEKKGIGKENPYSS
 LEPVSQTNM

TRTRPLE - GFP Tag - V

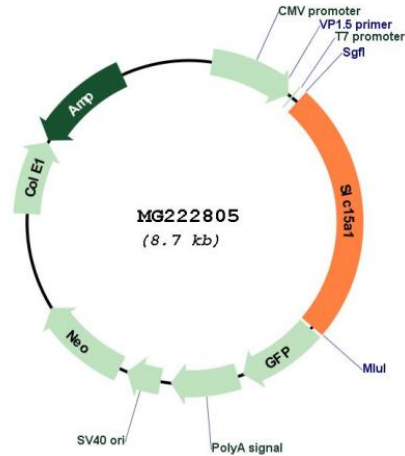
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_053079

ORF Size: 2127 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
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]