

Product datasheet for **RG218472**

SLC35D2 (NM_007001) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC35D2
Synonyms:	hfr; HFRC1; SQV7L; UGTrel8
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG218472 representing NM_007001
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGGCCGGCGGCCAGGCCGAGGCCGAGGGCGCTGGCGGGGAGCCCGCGCGCGCGGCTGCCCTCGC
GGGTGGCCCGGCTGCTGTGCGCGCTCTTCTACGGGACCTGCTCCTTCTCATCGTGCTTGTCAACAAGGC
GCTGCTGACCACCTACGGTTTCCCGTCACCAATTTCTTGGAAATTGGACAGATGGCAGCCACCATAATG
ATACTATATGTGTCCAAGCTAAACAAAATCATTCACTTCCCTGATTTTGATAAGAAAATTCCTGTAAAGC
TGTTTCTCTGCCTCTCTCTACGTTGGAACACATAAGTGGATTATCAAGCACAAGTAAATTAAGCCT
ACCGATGTTACCGTGCTCAGGAAATTCACCATTCACCTTACCTTACTTCTGGAACCATCATACTTGGG
AAGCAGTATTCACCTCAACATCATCCTCAGTGTCTTTGCCATTATTCTCGGGCTTTTCATAGCAGCTGGGT
CTGACCTTGCTTTAACTTAGAAGGCTATATTTTGTATTCTGAATGATATCTTCACAGCAGCAATGG
AGTTTATACCAACAGAAAATGGACCCAAAGGAGCTAGGGAAATACGGAGTACTTTTCTACAATGCCTGC
TTATGATTATCCCACTCTTATTATTAGTGTCTCCACTGGAGACCTGCAACAGGCTACTGAATCAACC
AATGGAAGAATGTTGTGTTTACCTACAGTTTCTTCTTCTGTTTTTGGGGTTTCTGCTGATGTAATC
CACGGTTCTGTGCAGCTATTACAATTCAGCCCTGACGACAGCAGTGGTTGGAGCCATCAAGAATGTATCC
GTTGCCATACATTGGGATATTAATCGGTGGAGACTACATTTTCTCTTTGTTAAACTTTGAGGGTTAAATA
TTTGATGGCAGGGGCTTGAGATATTCCTTTTAACTGAGCAGCCAGTTAAACCTAAACCTGTGGG
TGAAGAAAACATCTGTTGGATTGAAGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



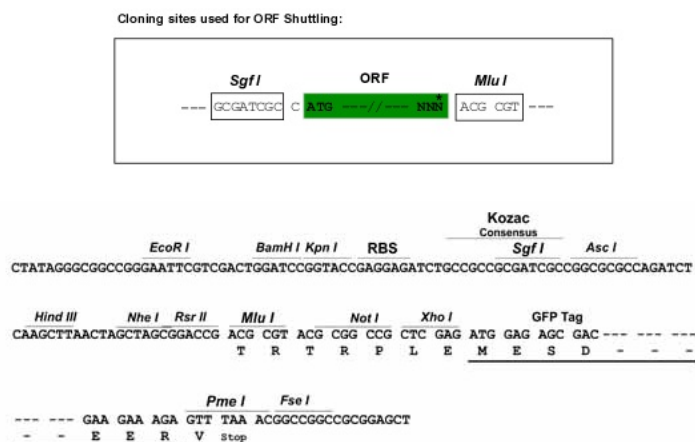
Protein Sequence: >RG218472 representing NM_007001
Red=Cloning site Green=Tags(s)

MTAGGQAEAGAGGEPGAARLPSRVARLLSALFYGTCSFLIVLVNKALLTTYGFSPSIFLGIGQMAATIM
ILYVSKLNKIIHFPDFDKKIPVKLFPLPLLYVGNHISGLSSTSLSLPMFTVLRKFITPLTLLLETIIILG
KQYSLNITLSVFAIILGAFIAAGSDLAFNLNVEGYFVFLNDIFTAANGVYTKQKMDPKELGKYGVLFYNAC
FMIIPTLIISVSTGDLQQATEFNQWKNVFIQLFSLCFGLFLMSTVLCYSYNKLTAVVGAIKNVS
VAYIGILGGDYIFSLNLVFLNINCMAGGLRYSFLLTSSOLPKPKPVEENICLDDLSK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007001

ORF Size: 1011 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:	<u>NM_007001.3</u>
RefSeq Size:	1588 bp
RefSeq ORF:	1014 bp
Locus ID:	11046
UniProt ID:	<u>Q76EJ3</u>
Cytogenetics:	9q22.32
Protein Families:	Transmembrane
Gene Summary:	Nucleotide sugars, which are synthesized in the cytosol or the nucleus, are high-energy donor substrates for glycosyltransferases located in the lumen of the endoplasmic reticulum and Golgi apparatus. Translocation of nucleotide sugars from the cytosol into the lumen compartment is mediated by specific nucleotide sugar transporters, such as SLC35D2 (Suda et al., 2004 [PubMed 15082721]).[supplied by OMIM, Mar 2008]