

Product datasheet for **MG215146**

Slc35d1 (NM_177732) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Slc35d1
Synonyms:	A1834976; C330011J09; mKIAA0260; UGTREL7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG215146 representing NM_177732
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAAGTCCACAGACGTGAGCATGCTCCGGTTAAAGGAGAAGCCCCGCGAAATCCTCCACACACA
GAGATGAGGAGGAGCTGGGGATGGCGCCGGCCGAAACGCTAACGGTGTTCCTGAAGCTGCTGGCCGCGG
TTTCTACGGCGTGAGCTCCTTCCTCATCGTGGTGGTCAACAAGAGCGTGCTCACCAACTACAGATTTCCA
TCCTCGCTATGTGTTGGACTTGGCCAGATGGTGGCCACGGTAGCGTTCTCTGGGTGGGAAAGACTCA
GAGTAGTCAAGTTTCTGACTTCGACAGAAATGTACCTCGAAAGACGTTTCCACTACCTCTACTATATTT
TGGGAACCAAATCACGGGACTGTTCAAGCACAAGAACTGAACCTGCCCATGTTTACAGTTCTGAGAAGG
TTCTCCATTCTGTTTACAATGTTTGTGAAGGCGCTCTACTCAAGAAGACTTTCTCTGGGGTATTAAGA
TGACTGATTTGCAATGATCATCGGAGCCTTCGTAGCTGCCAGCTCTGACTTGGCCTTTGATCTGGAAGG
ATATGTTTTTATTTGATCAATGATGTCTGACAGCAGCAAATGGTGCATACGTGAAACAGAAGTTAGAT
TCAAAAAGAGCTGGGAAAGTATGGCCTGCTCTATTACAATGCACTGTTATGATTCTGCCACCCTGGCCA
TTGCGTATTTACAGGAGATGCACAAAAGAATATTAATAACTTATATTGGAATGGTCTTTGGTGGAGA
TTATATTTTACATGGACAAAATTTATCGGCCTAAATATCAGTATTGCTGGAAGCCTGGTGTACTCTTAC
ATCACTTTTACGGAAGAGCAGCTGAGCAAGCAGTCAGAGGCCAGTAAACAAGCTGGACACGAAGGGAAAAG
GAGCAGTG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG215146 representing NM_177732
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MAEVHRRQHAPVKGEAPAKSSSTRDEEELGMAPAETLTVFLKLLAAGFYGVSSFLIVVVNKSVLNTYRFP
 SSLCVGLGQMVATVAVLVWVKTLRVVVKFPDFDRNVPRKTFPLPLLFGNQITGLFSTKKNLPMFTVLR
 FSILFTMFAEGALLKKTFSWGIKMTVFAMIIGAFVAASDLAFDLEGYVIFILINDVLTAANGAYVKQLD
 SKELGKYGLLYNALFMILPTLAIAYFTGDAQNILITYIGMVFGGDYIFTWTNFIGLNISIAAGSLVYSY
 ITFTEEQLSKQSEASNKLDTKGKAV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_177732

ORF Size: 918 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: [NM_177732.5](#)

RefSeq Size: 2893 bp

RefSeq ORF: 921 bp

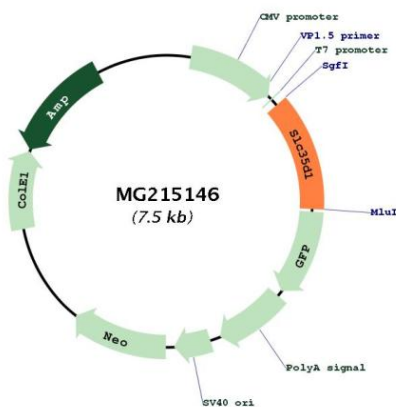
Locus ID: 242585

UniProt ID: [A2AKQ0](#)

Cytogenetics: 4 C6

Gene Summary: Transports both UDP-glucuronic acid (UDP-GlcA) and UDP-N-acetylgalactosamine (UDP-GalNAc) from the cytoplasm into the endoplasmic reticulum lumen. Plays a role in chondroitin sulfate biosynthesis, which is important for formation of cartilage extracellular matrix and normal skeletal development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215146