

Product datasheet for **RG217541**

Asialoglycoprotein Receptor 2 (ASGR2) (NM_080914) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asialoglycoprotein Receptor 2 (ASGR2) (NM_080914) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Asialoglycoprotein Receptor 2
Synonyms:	ASGP-R2; ASGPR2; CLEC4H2; HBXBP; HL-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217541 representing NM_080914 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAAGGACTTTCAAGATATCCAGCAGCTGAGCTCGGAGGAAAATGACCATCCTTTCCATCAAGGGC
CACCTCTGCCAGCCCTGGCACAGCGTCTCTGCTCCATGGTCTGCTTCAGTCTGCTTGGCCTGAGCTT
CAACATCTGCTGCTGGTGGTCACTGTGTGACTGGGTCCAAAGTGAGGGTCACAGAGGTGCACAGCTG
CAAGCCGAGCTGCGGAGCCTGAAGGAAGCTTTCAGCAACTTCTCCTCGAGCACCTGACGGAGGTCCAGG
CAATCAGCACCCACGGAGGCAGCGTGGGTGACAAGATCACATCCCTAGGAGCCAAGCTGGAGAAACAGCA
GCAGGACCTGAAAGCAGATCACGATGCCCTGCTTCCATCTGAAGCACTTCCCGTGGACTGCGCTTC
GTGGCCTGCCAGATGGAGCTCCTCCACAGCAACGGCTCCCAAAGGACCTGCTGCCCGTCAACTGGGTGG
AGCACCAAGGCAGCTGCTACTGGTTCTCTCACTCCGGGAAGGCCTGGGCTGAGGCGGAGAAGTACTGCCA
GCTGGAGAACGCACACCTGGTGGTCACTCAACTCCTGGGAGGAGCAGAAAATCATTGTACAACACAGAAC
CCCTTCAATACCTGGATAGGTCTCACGGACAGTATGGCTCTTGGAAATGGGTGGATGCCACAGACTATA
GGCACAACATAAGAAGTGGGCTGTCACTCAGCCAGATAATTGGCACGGGCACGAGCTGGGTGGAAGTGA
AGACTGTGTTGAAGTCCAGCCGGATGGCCGCTGGAACGATGACTTCTGCCTGCAGGTGTACCGCTGGGTG
TGTGAGAAAAGGCGGAATGCCACCGCGAGGTGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217541 representing NM_080914
Red=Cloning site Green=Tags(s)

MAKDFQDIQQLSSEENDHPFHQPPPAQPLAQLCSMVCFSLALSFNILLVVICVTGSQSEGHRAQL
 QAELRSLKEAFSNFSSSTL TEVQAISTHGGSVGDKITSLGAKLEKQQDLKADHDALLFHLKHFVDLRF
 VACQMELLHSNGSQRTCCPVNWEHQGSCYWF SHSGKAWAEAEKYCQLENAHLVVINSWEEQKFI VQHTN
 PFNTWI GLTDS DGSWKWVDGTDYRHNYKNWAVTQPDNWHGHELGGSEDCVEVQPDGRWNDDFCLQVYRWV
 CEKRRNATGEVA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080914

ORF Size: 876 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_080914.1](#), [NP_550436.1](#)

RefSeq Size: 1202 bp

RefSeq ORF: 879 bp

Locus ID: 433

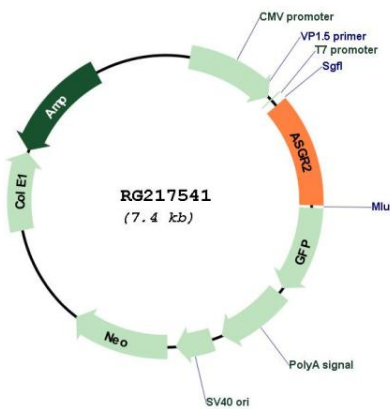
UniProt ID: [P07307](#)

Cytogenetics: 17p13.1

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a subunit of the asialoglycoprotein receptor. This receptor is a transmembrane protein that plays a critical role in serum glycoprotein homeostasis by mediating the endocytosis and lysosomal degradation of glycoproteins with exposed terminal galactose or N-acetylgalactosamine residues. The asialoglycoprotein receptor may facilitate hepatic infection by multiple viruses including hepatitis B, and is also a target for liver-specific drug delivery. The asialoglycoprotein receptor is a hetero-oligomeric protein composed of major and minor subunits, which are encoded by different genes. The protein encoded by this gene is the less abundant minor subunit. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]

Product images:



Circular map for RG217541