

Product datasheet for **SC305878**

Asialoglycoprotein Receptor 2 (ASGR2) (NM_080914) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asialoglycoprotein Receptor 2 (ASGR2) (NM_080914) Human Untagged Clone
Tag:	Tag Free
Symbol:	Asialoglycoprotein Receptor 2
Synonyms:	ASGP-R2; ASGPR2; CLEC4H2; HBXBP; HL-2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_080914 edited
GCAGGCCTTGCCCGACCAGCCCCTCCTCACTCTCCTCTCCCCTGTGAGCTCCACCTGC
CCCAGTTCTCCTGGCTTTAACCCCTCCTTGCCCAAGGCCAGGGTTGCCTGCGGGAGCCAG
GTGTCCGCTCTCCACACCTTTCACAGCCCCAGCCCTCAGAGCAACCTCAGCCCAGCCAG
CCCAGCTCCAGCTCCAGCTCCAGCCCGGCCCCATCATGGCCAAGGACTTTCAAGATATC
CAGCAGCTGAGCTCGGAGGAAAATGACCATCCTTTCCATCAAGGGCCACCTCCTGCCAG
CCCCTGGCACAGCGTCTCTGCTCCATGGTCTGCTTCAGTCTGCTTGCCCTGAGCTTCAAC
ATCCTGCTGCTGGTGGTCTGTGTGACTGGTCCCAAAGTGAGGGTCACAGAGGTGCA
CAGCTGCAAGCCGAGCTGCGGAGCCTGAAGGAAGCTTTCAGCAACTTCTCCTCGAGCACC
CTGACGGAGGTCCAGGCAATCAGCACCCACGGAGGCAGCGTGGGTGACAAGATCACATCC
CTAGGAGCCAAGCTGGAGAAACAGCAGCAGGACCTGAAAGCAGATCACGATGCCCTGCTC
TTCCATCTGAAGCACTTCCCCGTGGACCTGCGCTTCGTGGCTGCCAGATGGAGCTCCTC
CACAGCAACGGCTCCCAAAGGACCTGCTGCCCCGTCAACTGGGTGGAGCACCAGGACAGC
TGCTACTGGTTCTCTCACTCCGGGAAGGCCTGGGCTGAGGCGGAGAAGTACTGCCAGCTG
GAGAACGCACACCTGGTGGTCACTCAACTCCTGGGAGGAGCAGAAATTCATTGTACAACAC
ACGAACCCTTCAATACCTGGATAGGTCTACGGACAGTGATGGCTTTGGAAATGGGTG
GATGGCACAGACTATAGGCACAACACAAGAAGTGGGCTGCTCACTCAGCCAGATAATTGG
CACGGGCACGAGCTGGGTGGAAGTGAAGACTGTGTTGAAGTCCAGCCGGATGGCCGCTGG
AACGATGACTTCTGCCTGCAGGTGTACCGCTGGGTGTGTGAGAAAAGGCGGAATGCCACC
GGCGAGGTGGCCTGACCCAGCACACCTCTGGCTAACCCATACCCACACCTGCCAGCT
CTGGCTTCTCTGTTGAGGATTTTGGAGAAAGGAAGAAACACTGAGACAGGGGTATGGGGA
AGAGCTGAGCAAAGAGAGAAAGGAGGTAGTTTAAAGAGTCCCTGACCCTGGAGGACTGAGA
TCCCACCTCCTTCTGTAATTCATTGTAATTATTATAATCGTCAGCCTCTTCAATGGCGTA
GGAAAGAAGAAACAAATGCTTGAATCTC



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_080914 unedited TAGATATGTATACGACTCCTATAGGGCGGCCGATATTCCGGCACGAGGCAGGCCTTGCC CGGACCAGCCCCTCCTCCACTCTCCTCTCCCCTGTGAGCTCCACCTGCCCCAGTTCTCCT GGCTTTAACCCCTCCTTGGCCAAGGCCAGGGTTGCCTGCGGGAGCCAGGTGTCCGCTCTC CACACCTTTCACAGCCCCAGCCCTCAGAGCAACCTCAGCCCAGCCCAGCCCAGCTCCAGC TCCAGCTCCAGCCCGGGCCCCATCATGGCCAAGGACTTTCAAGATATCCAGCAGCTGAGC TCGGAGGAAAATGACCATCCTTTCCATCAAGGGCCACCTCCTGCCAGCCCCTGGCACAG CGTCTCTGCTCCATGGTCTGCTTCAGTCTGCTTGCCCTGAGCTTCAACATCCTGCTGCTG GTGGTATCTGTGTGACTGGGTCCCAAAGTGAGGGTCACAGAGGTGCACAGCTGCAAGCC GAGCTGCGGAGCCTGAAGGAAGCTTTCAGCAACTTCTCCTCGAGCACCCCTGACGGAGGTC CAGGCAATCAGCACCCACGGAGGCAGCGTGGGTGACAAGATCACATCCCTAGGAGCCAAG CTGGAGAAACAGCAGCAGGACCTGAAAGCAGATCACGATGCCCTGCTCTTCCATCTGAAG CACTTCCCGTGGACCTGCGCTTCGTGGCCTGCCAGATGGAGCTCCTCCACAGCAACGGC TCCCAAAGGACCTGCTGCCCGTCAACTGGGTGGAGCACCAAAGCAGCTGCTACTGGTTC TCTCACTCCGGGAAGGCCTGGGCTGAGCGGAGAGTACTGCCAGCTGGAGAACGCCACACC TGGTGGTCATCAACTCCTGGAGGAGCAGAATTCATTGTACAACACACGACCCCTTCATAC CTGGATAGGTCTCACGGACAGTGATGGCTCTTGAAATG
Restriction Sites:	Please inquire
ACCN:	NM_080914
Insert Size:	1400 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none"> 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:	<u>NM_080914.1</u> , <u>NP_550436.1</u>
RefSeq Size:	1202 bp
RefSeq ORF:	879 bp
Locus ID:	433
UniProt ID:	<u>P07307</u>
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]
Transcript Variant: This variant (3) uses an alternate splice site in the 5' coding region but maintains the reading frame, compared to variant H2'. The encoded isoform (c) is shorter than isoform a.