

## Product datasheet for **RG213607**

### Asialoglycoprotein Receptor 2 (ASGR2) (NM\_001181) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Asialoglycoprotein Receptor 2 (ASGR2) (NM_001181) 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:  | >RG213607 representing NM_001181<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAAGGACTTTCAAGATATCCAGCAGCTGAGCTCGGAGGAAAATGACCATCCTTTCCATCAAGGTG  
AGGGGCCAGGCACTCGCAGGCTGAATCCCAGGAGAGGAAATCCATTTTTGAAAGGGCCACCTCCTGCCCA  
GCCCTGGCACAGCGTCTCTGCTCCATGGTCTGCTTCAGTCTGCTTGCCCTGAGCTTCAACATCCTGCTG  
CTGGTGGTCATCTGTGTGACTGGGTCCCAAAGTGAGGGTCACAGAGGTGCACAGCTGCAAGCCGAGCTGC  
GGAGCCTGAAGGAAGCTTTCAGCAACTTCTCCTCGAGCACCTGACGGAGGTCCAGGCAATCAGCACCCA  
CGGAGGCAGCGTGGGTGACAAGATCACATCCCTAGGAGCCAAGCTGGAGAAACAGCAGCAGGACCTGAAA  
GCAGATCACGATGCCCTGCTCTTCCATCTGAAGCACTTCCCCGTGGACCTGCGCTTCGTGGCCTGCCAGA  
TGGAGCTCCTCCACAGCAACGGCTCCCAAAGGACCTGCTGCCCGTCAACTGGGTGGAGCACCAAGGCGAG  
CTGCTACTGGTTCTCTCACTCCGGGAAGGCCTGGGCTGAGGCGGAGAAGTACTGCCAGCTGGAGAACGCA  
CACCTGGTGGTCATCACTCCTGGGAGGAGCAGAAATTCATTGTACAACACAGAACCCCTTCAATACCT  
GGATAGGTCTCACGGACAGTGATGGCTCTTGAAATGGGTGGATGGCACAGACTATAGGCACAACATAAA  
GAACTGGGCTGTCACTCAGCCAGATAATTGGCACGGGCACGAGCTGGGTGGAAGTGAAGACTGTGTTGAA  
GTCCAGCCGGATGGCCGCTGGAACGATGACTTCTGCCTGCAGGTGTACCGCTGGGTGTGTGAGAAAAGGC  
GGAATGCCACCGCGAGGTGGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG213607 representing NM\_001181  
Red=Cloning site Green=Tags(s)

MAKDFQDIQQLSSEENDHPFHQEGEPGTRRLNPRRGNPFLKGPPPAQPLAQRLCMVCFSLLALSFNILL  
 LVVICVTGSQSEGHRAQLQAELRSLKEAFSNFSSSTL TEVQAI STHGGSVGDKITSLGAKLEKQQDLK  
 ADHDALLFHLKHFPVDLRFVACQMELLSHNSGSQRTCCPVNWEHQGSCYWF SHSGKAWAEAEKYCQLENA  
 HLVVINSWEEQKFIVQHTNPFNTWIGL TDSGGSWKWVDGTDYRHNYKNWAVTQPDNWHGHELGGSEDCVE  
 VQPDGRWDDFCLQVYRWVCEKRRNATGEVA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001181

**ORF Size:** 933 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\\_001181.3](#)

**RefSeq Size:** 1405 bp

**RefSeq ORF:** 936 bp

**Locus ID:** 433

**UniProt ID:** [P07307](#)

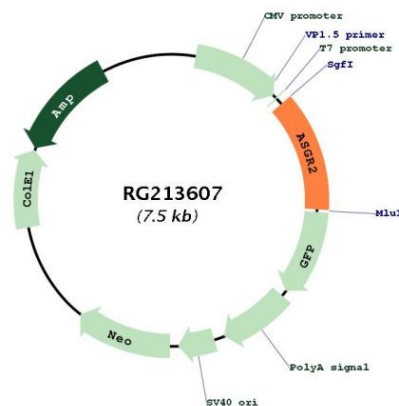
**Cytogenetics:** 17p13.1

**Domains:** CLECT, lectin\_N

**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 RG213607