

## Product datasheet for **MG204202**

### Asgr2 (NM\_007493) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Asgr2 (NM_007493) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Asgr2
Synonyms:	A; AS; Asg; ASGPR2; Asgr; Asgr-2; HL-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204202 representing NM_007493 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGAAGGACTGTCAAGACATCCAGCAGCTGGACTCTGAGGAGAATGACCATCAGCTCAGTGGCGATG  
ACGAACACGGCTCATGTGCAGGATCCTAGGATAGAAAATCCACTGGAAAGGGCAGCCTCTTTCCAG  
GCCCTTCTCAGCGCCTCTGCTCCACGTTCCGCCTCAGTCTGCTCGCCCTGGCCTTCAACATCCTCCTG  
TTGGTGGTCATCTGTGTGGTTTCATCTCAAAGCATAACAGCTGCAAGAAGAGTTTCGGACCCTGAAAGAAA  
CCTTCAGCAACTTTTCTCCAGCACCTGATGGAGTTCGGGGCTCTGGACACCCTCGGAGGTAGCACAAA  
CGCCATACTGACTTCTGGTTAGCCCACTGGAGGAGAAGCAGCAACAGCTAAAGGCAGACCATTCCACA  
TTGCTCTTTCACCTGAAGCACTTCCAATGGATCTGCGAACCCCTGACCTGTGAGCTGGCGTACTTCCAGA  
GCAATGGCACGGAATGCTGCCCTGTTAACTGGGTGGAGTTCGGGGGAAGCTGCTACTGGTTTTCTCGGGA  
TGGGCTCACCTGGGCTGAGGCTGACCAGTACTGCCAGCTGGAGAACGCCACCTGCTGGTCATCAACTCC  
AGGGAGGAGCAGGACTTTGTTGTAAGCACAGGAGCCAGTTTCATATTTGGATAGGTCTTACCGACAGGG  
ATGGCTCCTGAAATGGGTGGATGGAAGTATTATAGAAGCAACTACAGGAATTGGGCCTTCACTCAGCC  
AGATAACTGGCAGGGCCATGAACAGGGTGGAGGTGAAGACTGTGCTGAAATCCTGTCAGATGGCCATTGG  
AATGACAACTTCTGCCAGCAGGTGAACCGCTGGGTATGCGAAAAGAGACGGAACATCACCCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204202 representing NM\_007493  
Red=Cloning site Green=Tags(s)

MEKDCQDIQQLDSEENDHQLSGDDEHGSHVQDPRIENPHWKGPQLSRPFPQRLCSTFRLSLLALAFNILL  
 LVVICVSSQSIQLQEEFRTLKETFSNFSSTLMEFGALDTLGGSTNAILTSWLAQLEEKQQQLKADHST  
 LLFHLKHFPMDLRTLTCQLAYFQSNTECCPVNWVEFGGSCYWF SRDGLTWAEADQYQCLEN AHL LVINS  
 REEQDFVVKHRSQFHIWIGL TDRDGSWKWVDGTDYRSNYRNWAF TQPDNWQGHEQGGGEDCAEILSDGHW  
 NDNFCQQVNRWVCEKRRNITH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007493

**ORF Size:** 903 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\\_007493.2](#)

**RefSeq Size:** 1373 bp

**RefSeq ORF:** 906 bp

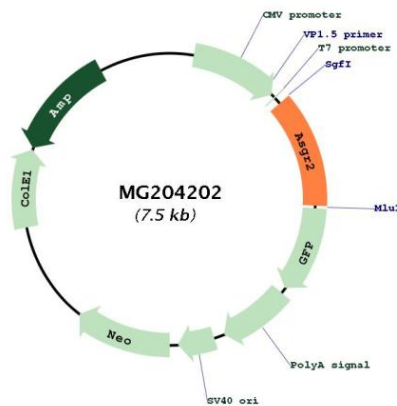
**Locus ID:** 11890

**UniProt ID:** [P24721](#)

**Cytogenetics:** 11 42.99 cM

**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 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, Sep 2015]

**Product images:**



Circular map for MG204202