

Product datasheet for **MG220307**

Asrgl1 (NM_025610) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Asrgl1 (NM_025610) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Asrgl1
Synonyms: 2410004D18Rik; ALP; ALP1; AU040643; AW060375
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220307 representing NM_025610
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTGCGCCCGCGCACCGTGGCGCCGCCAGTCCGAGCCTCCATCGATGTGAGTCTCGTGGTGGTAG
TCCATGGTGGCGGAGCAAGCAACATCTCAGCCAACCGAAAGAGCTGGTGCAGGAGGCATCGCCAGAGC
GGCAACCGAGGGCTACAAAATCCTCAAGCGGGAGGGAGCGGGTAGATGCTGTGGAAGGAGCCGTGACT
GTCCTGAAAACGACCCAGAGTTCAACGCAGGTTATGGGTCTGTCCTGAATGTAACGGTGATATTGAGA
TGGATGCTAGTATCATGGATGGGAAGGACCTGTCTGCAGGTGCAGTGTCTGCCGTGCGCTGTATCGCAA
TCCCGTTAAACTTGCACGGCTTGTATGAAAAGACACCTCATTGCTTTCTGACTGGCCATGGTGCAGAG
AAATTTGCAGAAGACATGGGGATTCCACAGGTCCTGTAGAAAACTGATAACTGAGAGAACCAAGAAGC
ACCTGGAGAAAGAGAAGCTTGAGAAGGGAGCACAGAATGCTGACTGCCCTAAAACTCAGGAACTGTGGG
TGCTGTTGCCCTGGACTGCAGAGGAACTTGGCTTACGCAACCTCTACTGGGGGATTGTCAATAAAATG
GTTGGCCGAGTTGGAGACTCGCCTTGCATAGGAGCTGGAGGTTACGCAGATAATAACCTTGGAGCCGTTT
CAACCACAGGACATGGGAAAGTATCCTGAAGGTGAATCTGGCCAGACTTGCCTCTTCCATGTAGAGCA
AGGAAAGACCGTAGAGGAGGCTGCTCAGTTGGCATTGGATTACATGAAGTCAAACTCAAAGGTCTAGGT
GGCCTCATCTTGGTCAACAAAACAGGAGACTGGGTGGCAAAGTGGACCTCTGCCTCCATGCCCTGGGCAG
CGGTGAAGAATGGCAAGCTGCAGGCCGGCATTGACCTCTGTGAGACCAGGACAAGGGACCTACCTTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220307 representing NM_025610
Red=Cloning site Green=Tags(s)

MACARGTVAPPVRASIDVSLVVVVHGGGASNISANRKELVREGIARAATEGYKILKAGGSVAVDAVEGAVT
 VLENDPEFNAGYGSVLNVNGDIEMDASIMDGKDL SAGAVSAVRCIANPVKLARLVMEKTPHCFLTGHGAE
 KFAEDMGIPQVPVEKLI TERTKKHLEKEKLEKGAQNADCPKNSGTVGAVALDCRGNLAYATSTGGIVNKM
 VGRVGDSPCIGAGGYADNNL GAVSTTGHGESILKVNLARLALFHVEQGGKTVEEAAQLALDYMKSKLKGLG
 GLILVNKTGDWVAKWTSASMPWAAVKNGKLQAGIDL CETRTRDLPC

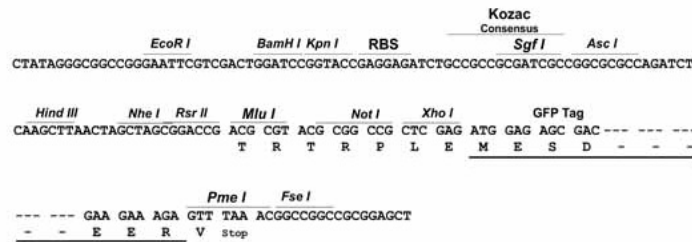
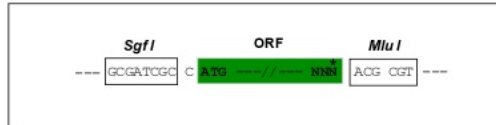
TRTRPLE - GFP Tag - V

Restriction Sites:

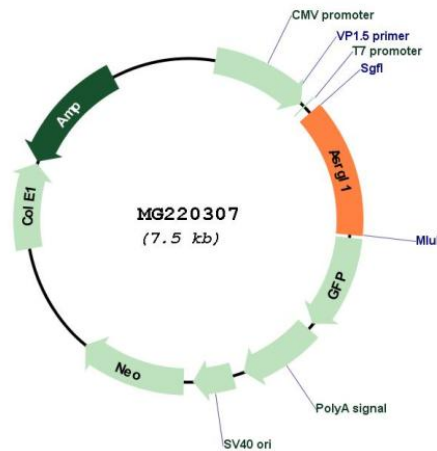
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_025610

ORF Size: 978 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:	<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:	NM_025610.3 , NP_079886.2
RefSeq Size:	2274 bp
RefSeq ORF:	981 bp
Locus ID:	66514
UniProt ID:	Q8COM9
Cytogenetics:	19 A
Gene Summary:	Has both L-asparaginase and beta-aspartyl peptidase activity. May be involved in the production of L-aspartate, which can act as an excitatory neurotransmitter in some brain regions. Is highly active with L-Asp beta-methyl ester. Besides, has catalytic activity toward beta-aspartyl dipeptides and their methyl esters, including beta-L-Asp-L-Phe, beta-L-Asp-L-Phe methyl ester (aspartame), beta-L-Asp-L-Ala, beta-L-Asp-L-Leu and beta-L-Asp-L-Lys. Does not have aspartylglucosaminidase activity and is inactive toward GlcNAc-L-Asn. Likewise, has no activity toward glutamine.[UniProtKB/Swiss-Prot Function]