

Product datasheet for **MC210384**

Asrgl1 (NM_025610) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Asrgl1 (NM_025610) Mouse Untagged Clone
Tag: Tag Free
Symbol: Asrgl1
Synonyms: 2410004D18Rik; ALP; ALP1; AU040643; AW060375
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC210384 representing NM_025610
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTGCGCCCGCCACCGTGGCGCCGCCAGTCCGAGCCTCCATCGATGTGAGTCTCGTGGTGGTAG
 TCCATGGTGGCGGAGCAAGCAACATCTCAGCCAACCGAAAGAGCTGGTGCAGGAGGCATCGCCAGAGC
 GGCAACCGAGGGCTACAAAATCCTCAAGCGGGAGGGAGCGCGGTAGATGCTGTGAAGGAGCCGTGACT
 GTCCTGGAAAACGACCCAGAGTTCAACGCAGGTTATGGGTCTGTCTGAATGTAAACGGTGATATTGAGA
 TGGATGCTAGTATCATGGATGGGAAGGACTGTCTGCAGGTGCAGTGTCTGCCGTGCGCTGTATCGCAAA
 TCCCGTTAAACTTGCACGGCTTGTATGGAAAAGACACCTCATTGCTTTCTGACTGGCCATGGTGCAGAG
 AAATTTGCAGAAGACATGGGGATTCCACAGGTCCTGTAGAAAACTGATAACTGAGAGAACCAAGAAGC
 ACCTGGAGAAAGAGAAGCTTGAGAAGGGAGCACAGAATGCTGACTGCCCTAAAAACTCAGGAACTGTGGG
 TGCTGTTGCCTTGGACTGCAGAGGAACTTGGCTTACGCAACCTCTACTGGGGGATTGTCAATAAAATG
 GTTGGCCGAGTTGGAGACTCGCCTTGCATAGGAGCTGGAGTTACGCAGATAATAACCTTGGAGCCGTTT
 CAACCACAGGACATGGGAAAGTATCCTGAAGGTGAATCTGCCAGACTTCCCTTTCCATGTAGAGCA
 AGGAAAGACCGTAGAGGAGGCTGCTCAGTTGGCATTGGATTACATGAAGTCAAAAACCTCAAAGGCTAGGT
 GGCTCATCTTGGTCAACAAAACAGGAGACTGGGTGGCAAAGTGACCTCTGCCTCCATGCCCTGGGCAG
 CGGTGAAGAATGGCAAGCTGCAGGCCGGCATTGACCTCTGTGAGACCAGGACAAGGGACCTACCTTGCTA
 G

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_025610



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Insert Size:	981 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).
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:	Q8C0M9
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]