

Product datasheet for **MC217824**

Asrgl1 (BC016106) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asrgl1 (BC016106) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Asrgl1
Synonyms:	ALP, ALP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>BC016106 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGCTAGTATCATGGATGGGAAGGACCTGTCTGCAGGTGCAGTGTCTGCCGTGCGCTGTATCGCAA
ATCCCGTTAAACTTGCACGGCTTGTATGAAAAGACACCTCATTGCTTTCTGACTGGCCATGGTGCAGA
GAAATTTGCAGAAGACATGGGGATTCCACAGGTCCTGTAGAAAACTGATAACTGAGAGAACCAAGAAG
CACCTGGAGAAAGAGAAGCTTGAGAAGGGAGCACAGAATGCTGACTGCCCTAAAACTCAGGAACGTGG
GTGCTGTTGCCTTGGACTGCAGAGGAACTTGGCTTACGCAACCTCTACTGGGGGATTGTCAATAAAAT
GGTTGGCCGAGTTGGAGACTCGCCTTGCAAGGAGCTGGAGGTTACGCAGATAATAACCTTGGAGCCGTT
TCAACCACAGGACATGGGAAAGTATCCTGAAGGTGAATCTGGCCAGACTTGCCTCTTCCATGTAGAGC
AAGGAAAGACCGTAGAGGAGGCTGCTCAGTTGGCATTGGATTACATGAAGTCAAACCTCAAAGGTCTAGG
TGGCCTCATCTTGGTCAACAAAACAGGAGACTGGGTGGCAAAGTGGACCTCTGCCTCCATGCCCTGGCA
GCGGTGAAGAATGGCAAGCTGCAGGCCGCATTGACCTCTGTGAGACCAGGACAAGGGACCTACCTTGCT
AG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	BC016106
Insert Size:	702 bp



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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:	<u>BC016106</u> , <u>AAH16106</u>
RefSeq Size:	1723 bp
RefSeq ORF:	701 bp
Locus ID:	66514
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]