

Product datasheet for SC316051

ASRGL1 (NM_001083926) Human Untagged Clone

Product data:

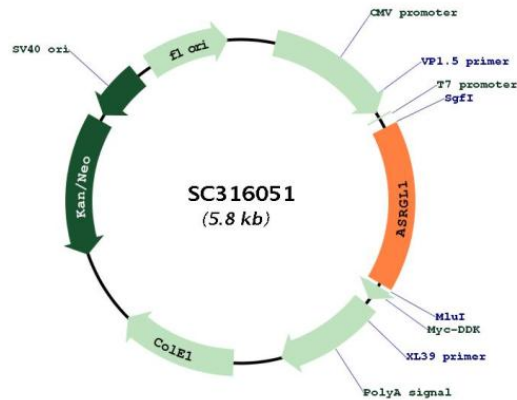
Product Type:	Expression Plasmids
Product Name:	ASRGL1 (NM_001083926) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASRGL1
Synonyms:	ALP; ALP1; CRASH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316051 representing NM_001083926. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAATCCCATCGTAGTGGTCCACGGCGGGAGCCGGTCCCATCTCCAAGGATCGGAAGGAGCGAGTG
CACCAGGGCATGGTCAGAGCCGCCACCGTGGGCTACGGCATCCTCCGGGAGGGCGGGAGCGCCGTGGAT
GCCGTAGAGGGAGCTGTCGTGCCCTGGAAGACGATCCCGAGTTCAACGCAGGTTGTGGTCTGTCTTG
AACACAAATGGTGAAGTTGAAATGGATGCTAGTATCATGGATGGAAAAGACCTGTCTGCAGGAGCAGTG
TCCGCAGTCCAGTGTATAGCAAATCCCATTAACCTTGTCTGGCTTGTATGGAAAAGACACCTCATTGC
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CTGGTGACAGAGAGAAACAAAAAGCGCCTGGAAAAGAGAAGCATGAAAAGGTGCTCAGAAAACAGAT
TGTCAAAAAACTTGGGAACCGTGGGTGCTGTTGCCTTGGACTGCAAAGGGAATGTAGCCTACGCAACC
TCCACAGGCGGTATCGTTAATAAAATGGTCCGCCCGCTTGGGACTCACCGTGTCTAGGAGCTGGAGGT
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GCTAGACTCACCTGTTCCACATAGAACAAGGAAAGACGGTAGAAGAGGCTGCGGACCTATCGTTGGGT
TATATGAAGTCAAGGTTAAAGTTTAGGTGGCCTCATCGTGGTTAGCAAACAGGAGACTGGGTGGCA
AAGTGGACCTCCACCTCCATGCCCTGGCAGCCGCCAAGGACGGCAAGCTGCACTTCGGAATTGATCCT
GACGATACTACTATCACCGACCTCCCTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001083926

Insert Size: 927 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001083926.1](#)

RefSeq Size: 2424 bp

RefSeq ORF: 927 bp

Locus ID: 80150

UniProt ID: [Q7L266](#)

Cytogenetics: 11q12.3

Protein Families: Protease

MW: 32.1 kDa

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]
Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.