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# Product datasheet for RG214638

## ASRGL1 (NM_001083926) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | ASRGL1 (NM_001083926) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | ASRGL1 |
| **Synonyms:** | ALP; ALP1; CRASH |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

>RG214638 representing NM_001083926
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATCCCATCGTAGTGGTCCACGGCGGCGGAGCCGGTCCCATCTCCAAGGATCGGAAGGAGCGAGTGC
ACCAGGGCATGGTCAGAGCCGCCACCGTGGGCTACGGCATCCTCCGGGAGGGCGGGAGCGCCGTGGATGC
CGTAGAGGGAGCTGTCGTCGCCCTGGAAGACGATCCCGAGTTCAACGCAGGTTGTGGGTCTGTCTTGAAC
ACAAATGGTGAGGTTGAAATGGATGCTAGTATCATGGATGGAAAAGACCTGTCTGCAGGAGCAGTGTCCG
CAGTCCAGTGTATAGCAAATCCCATTAAACTTGCTCGGCTTGTCATGGAAAAGACACCTCATTGCTTTCT
GACTGACCAAGGCGCAGCGCAGTTTGCAGCAGCTATGGGGGTTCCAGAGATTCCTGGAGAAAAACTGGTG
ACAGAGAGAAACAAAAAGCGCCTGGAAAAAGAGAAGCATGAAAAAGGTGCTCAGAAAACAGATTGTCAAA
AAAACTTGGGAACCGTGGGTGCTGTTGCCTTGGACTGCAAAGGGAATGTAGCCTACGCAACCTCCACAGG
CGGTATCGTTAATAAAATGGTCGGCCGCGTTGGGGACTCACCGTGTCTAGGAGCTGGAGGTTATGCCGAC
AATGACATCGGAGCCGTCTCAACCACAGGGCATGGGGAAAGCATCCTGAAGGTGAACCTGGCTAGACTCA
CCCTGTTCCACATAGAACAAGGAAAGACGGTAGAAGAGGCTGCGGACCTATCGTTGGGTTATATGAAGTC
AAGGGTTAAAGGTTTAGGTGGCCTCATCGTGGTTAGCAAAACAGGAGACTGGGTGGCAAAGTGGACCTCC
ACCTCCATGCCCTGGGCAGCCGCCAAGGACGGCAAGCTGCACTTCGGAATTGATCCTGACGATACTACTA
TCACCGACCTTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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**Protein Sequence:**

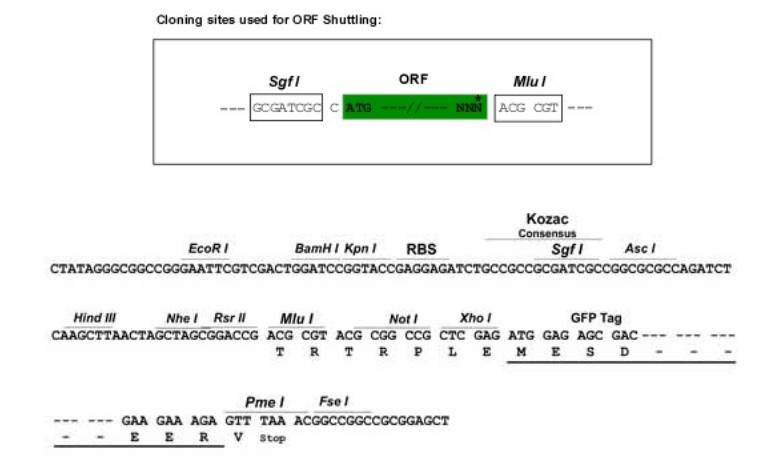
>RG214638 representing NM_001083926
Red=Cloning site Green=Tags(s)

MNPIVVVHGGGAGPISKDRKERVHQGMVRAATVGYGILREGGSAVDAVEGAVVALEDDPEFNAGCGSVLN
TNGEVEMDASIMDGKDLSAGAVSAVQCIANPIKLARLVMEKTPHCFLTDQGAAQFAAAMGVPEIPGEKLV
TERNKKRLEKEKHEKGAQKTDCQKNLGTVGAVALDCKGNVAYATSTGGIVNKMVGRVGDSPCLGAGGYAD
NDIGAVSTTGHGESILKVNLARLTLFHIEQGKTVEEAADLSLGYMKSRVKGLGGLIVVSKTGDWVAKWTS
TSMPWAAAKDGKLHFGIDPDDTTITDLP

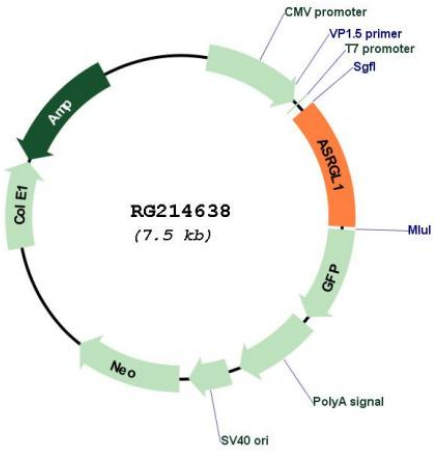
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**




**ACCN:** NM_001083926

**ORF Size:** 924 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001083926.2 |
| **RefSeq Size:** | 2424 bp |
| **RefSeq ORF:** | 927 bp |
| **Locus ID:** | 80150 |
| **UniProt ID:** | Q7L266 |
| **Cytogenetics:** | 11q12.3 |
| **Protein Families:** | Protease |
| **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] |