

Product datasheet for **SC338041**

LARG (ARHGEF12) (NM_001301084) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LARG (ARHGEF12) (NM_001301084) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGEF12
Synonyms:	LARG; PRO2792
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001301084, the custom clone sequence may differ by one or more nucleotides

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ATGCGGGCTGGAGTACAGACAGGTGATCGAATCATCAAGGTGAATGGAACCTGGTGACTCATTCAAATC
ATCTGGAGGTGGTGAAGCTAATCAAATCTGGTTCCTATGTAGCTCTCACTGTTCCAGGACGCCACCTGG
GTCGCCCCAGATTCCACTTGCCGACTCTGAAGTAGAGCCGTCAGTCATTGGACATATGTCTCCCATCATG
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CACCTCCAGACCTTTAGGGGACACCCTAACAGTCAGTGAGGCAGAAACAGATCCTGGAGATGACTGGG
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TCAGGACTCTGCCAAGTTGCGCCAGAGTGGGTTAGCAAATGAAGGAACAGACGCTGGATACCTGCCTGCC
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CTCCTCAGAACTCACTCCGATGGGGCAATTTACCATTACCCCCGAATTTCTGGTCCAGCAGCGCTG
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TTTGCCAAAGGCTGGCTGGATCAGCCCTCACAGACAAGCACTCAGATAAAAAGTAG

Restriction Sites: SgfI-MluI

ACCN: NM_001301084

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:

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_001301084.1](#), [NP_001288013.1](#)

RefSeq Size: 9655 bp

RefSeq ORF: 4326 bp

Locus ID: 23365

UniProt ID: [Q9NZN5](#)

Cytogenetics: 11q23.3

Protein Pathways: Axon guidance, Regulation of actin cytoskeleton, Vascular smooth muscle contraction

Gene Summary: Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli working through G protein-coupled receptors. The encoded protein may form a complex with G proteins and stimulate Rho-dependent signals. This protein has been observed to form a myeloid/lymphoid fusion partner in acute myeloid leukemia. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]

Transcript Variant: This variant (3) uses an alternate first exon and initiates translation at a downstream AUG compared to variant 1. The resulting isoform (3) is shorter at the N-terminus compared to isoform 1.