

Product datasheet for **SC328765**

ARHGEF9 (NM_001173479) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGEF9 (NM_001173479) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGEF9
Synonyms:	COLLYBISTIN; DEE8; EIEE8; HPEM-2; PEM-2; PEM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC328765 representing NM_001173479.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGTGGATAAGGGGCGGATCGGGAATGCTCTGGGTGAACCAGGAGGATGAGGTGGAGGAGGGGCC
AGCGAGTGCAGAACGGACACCTGGACCCCAATTCAGACTGCCTCTGTCTGGGGCGGCCACTACAGAAC
CGGGACCAGATGCGGGCCAATGTCATCAATGAGATAATGAGCACTGAGCGTCACTACATCAAGCACCTC
AAGGATATTTGTGAGGGCTATCTGAAGCAGTGCCGGAAGAGAAGGGACATGTTCACTGACGAGCAACTG
AAGGTAATCTTTGGGAACATTGAAGATATCTACAGATTTAGATGGGCTTTGTGAGAGACCTGGAGAAA
CAGTATAACAATGATGACCCCACTCAGCGAGATAGGACCTGCTTCTAGAGCACCAAGATGGATTC
TGGATATACTCTGAGTATTGTAACAACCACCTGGATGCTTGCATGGAGCTCTCAAAGTATGAAGGAC
AGCCGCTACCAGCACTTCTTTGAGGCTGTCGCCTCTTGCAGCAGATGATTGACATTGCTATCGATGGT
TTCTTTTACTCCAGTGCAGAAGATCTGCAAGTATCCCTTACAGTTGGCTGAGCTCTAAAGTATACT
GCCAAGACCACAGTGACTACAGGTATGTGGCAGCTGCTTTGGCTGTCATGAGAAATGTGACTCAGCAG
ATCAACGAACGCAAGCGACGTTTAGAGAATATTGACAAGATTGCTCAGTGGCAGGCTTCTGTCTAGAC
TGGGAGGGCGAGGACATCCTAGACAGGAGCTCGGAGCTGATCTACACTGGGAGATGGCCTGGATCTAC
CAGCCCTACGGCCGAACCAGCAGCGGGTCTTCTTCTGTTTGACCACCAGATGGTCTCTGCAAGAAG
GACCTAATCCGGAGAGACATCCTGTACTACAAAGGCCGATTGACATGGATAAATATGAGGTAGTTGAC
ATTGAGGATGGCAGAGATGATGACTTCAATGTCAGCATGAAGAATGCCTTTAAGCTTCAACAAGGAG
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GAAGAGAGGAAAAATGGTACAGGAAGATGAAAAAATGGCTTTGAAATTTGAAAACCAGAAGAGGCAG
GCTGCAATGACTGTGAGAAAAGTCCCTAAGCAAAAAGGTGCAACTCTGCCCGCTCAGTTCCTCTCC
TACCCACCACCGCAGGACCCGTTAAACCAGGCCAGTACCTGGTCCCGCAGCGCATCGCTCAGTCGCAG
GTCTTTGAGTTACCGAACCCAAGCGCAGCCAGTACCATTCTGGCAAACTTCAGCAGGTTAACCCCC
TTCAAAAAATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-Mlul

ACCN: NM_001173479

Insert Size: 1392 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_001173479.1](#)

RefSeq Size: 4853 bp

RefSeq ORF: 1392 bp

Locus ID: 23229

UniProt ID: [O43307](#)

Cytogenetics: Xq11.1

MW: 55 kDa

Gene Summary: The protein encoded by this gene is a Rho-like GTPase that switches between the active (GTP-bound) state and inactive (GDP-bound) state to regulate CDC42 and other genes. This brain-specific protein also acts as an adaptor protein for the recruitment of gephyrin and together these proteins facilitate receptor recruitment in GABAergic and glycinergic synapses. Defects in this gene are the cause of startle disease with epilepsy (STHEE), also known as hyperekplexia with epilepsy, as well as several other types of cognitive disability. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2017]

Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1.