OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC332072

RGNEF (ARHGEF28) (NM_001244364) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: RGNEF (ARHGEF28) (NM_001244364) Human Untagged Clone

Tag: Tag Free

Symbol: ARHGEF28

Synonyms: p190RHOGEF; RGNEF; RIP2

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC332072 representing NM_001244364.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

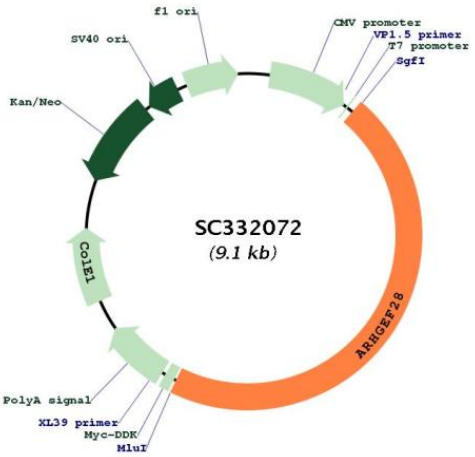
ATGGATTCTGACTCCGACTCACCTTTTAACTACTCGTGGCCTTCCTTTCCCAAAATGAAGATTCGAAGA
AGGACGTCCAAACAAGATCGCTCCTTCGATATCCTAAAAAAATCCAAGCCGCCCTCGACATTGCTTGCT
GCAGGCCGGCTTTCAGACATGCTGAATGGAGGTGATGAAGTCTACGCTAACTGTATGGTGATTGATCAG
GTTGGTGATTTGGATATCAGCTATATTAATATAGAGGGAATCACTGCCACTACCAGCCCTGAATCCAGA
GGTTGCACTCTGTGGCCTCAGAGCAGCAAACACACCCTTCCTACAGAAACCAGTCCCAGTGTGTACCCA
CTTAGTGAAAATGTCGAAGGGACAGCACACACTGAAGCCCAGCAGTCCTTCATGTCACCATCAAGTTCG
TGTGCTTCCAACTTGAATCTTTCTTTTGGTTGGCATGGATTTGAAAAGGAACAAAGTCATCTAAAGAAA
AGAAGTTCTAGCCTTGATGCCTTGGACGCCGACAGTGAAGGGGAAGGGCATTCTGAGCCATCCCACATC
TGTTACACTCCAGGGTCTCAGAGCTCCTCAAGAACTGGGATTCCTAGTGGGGATGAATTGGACTCTTTT
GAGACTAACACTGAACCGGATTTTAATATCTCCAGGGCTGAATCCCTTCCTCTATCAAGTAATCTACAG
TCGAAGGAATCACTGCTTTCTGGAGTTCGCTCACGTTCTTATTCTTGCTCATCACCCAAAATTTCTTTA
GGAAAAACTCGTTTGGTGCGTGAATTAACAGTATGCAGTTCAAGTGAAGAGCAAAGAGCTTACAGCTTA
TCGGAGCCACCAAGAGAAAACAGAATTCAGGAAGAAGAATGGGATAAATACATCATACCTGCCAAATCA
GAGTCTGAAAAATATAAAGTGAGTCGAACTTTCAGTTTCCTCATGAATAGGATGACTAGCCCTCGGAAT
AAATCAAAGACAAAAAGCAAGGATGCCAAAGATAAAGAGAAGCTGAATCGACATCAGTTTGCCCCAGGA
ACATTCTCTGGGGTTCTGCAGTGTTTGGTTTGTGATAAAACACTCCTGGGGAAAGAGTCACTGCAGTGT
TCTAACTGTAATGCAAATGTGCACAAAGGTTGTAAAGATGCTGCGCCTGCATGCACCAAGAAATTCCAA
GAGAAATATAACAAGAACAAACCACAGACCATCCTTGGAAATTCTTCATTTAGAGACATCCCACAGCCT
GGTCTCTCCTTGCACCCTTCTTCCTCCGTGCCTGTTGGATTGCCGACTGGAAGGAGGGAGACTGTGGGA
CAGGTCCATCCATTGTCCAGAAGTGTTCCAGGCACCACCTTGGAAAGCTTCAGGAGGTCAGCCACATCC
TTGGAGTCTGAGAGTGACCATAACAGCTGCAGAAGCAGGTCTCATTCTGATGAGCTGCTACAGTCCATG
GGCTCTTCTCCCTCTACAGAGTCTTTCATAATGGAAGATGTTGTGGATTCTTCTCTGTGGAGTGACCTC
AGCAGTGATGCCCAGGAGTTTGAAGCAGAATCTTGGAGTCTTGTGGTGGATCCCTCATTTTGTAATAGG
CAGGAGAAGGATGTCATCAAAAGACAGGATGTCATTTTTGAGCTAATGCAAACAGAGATGCATCACATC
CAGACCCTGTTCATCATGTCTGAGATCTTCAGGAAAGGCATGAAAGAGGAGCTGCAGCTGGACCACAGC
ACCGTGGATAAAATTTTCCCCTGTTTAGATGAGTTGCTTGAAATCCACAGGCATTTCTTCTACAGTATG
AAGGAACGAAGGCAGGAATCCTGTGCTGGCAGCGACAGGAATTTTGTGATCGACCGAATTGGAGATATT
TTGGTACAACAGTTTTCAGAAGAAAATGCAAGTAAAATGAAGAAAATATATGGAGAATTCTGTTGCCAT

View online »

CATAAAGAAGCTGTTAACCTCTTTAAAGAACTCCAGCAGAATAAAAAGTTTCAGAATTTTATTAAGCTC
CGAAATAGTAATCTTTTGGCTCGACGCCGAGGAATTCCAGAATGCATTCTGTTGGTCACTCAGCGTATT
ACAAAATACCCTGTCTTGGTGGAAAGGATATTGCAGTACACAAAGGAAAGAACTGAGGAACATAAAGAC
TTACGCAAAGCGCTTTGCTTAATTAAAGACATGATTGCAACAGTGGATTTAAAAGTCAATGAATATGAG
AAAAACCAAAAATGGCTTGAGATCCTAAATAAGATTGAAAACAAAACATACACGAAGCTCAAAAATGGA
CATGTGTTTAGGAAGCAGGCACTGATGAGTGAAGAAAGGACTCTGTTATATGATGGCCTTGTTTACTGG
AAAACTGCTACAGGTCGTTTCAAAGATATCCTAGCTCTACTTCTAACTGATGTGCTGCTCTTTTTACAA
GAAAAAGACCAGAAATACATCTTTGCAGCCGTTGATCAGAAGCCATCAGTTATTTCCCTTCAAAAGCTT
ATTGCTAGAGAAGTTGCTAATGAGGAGAGAGGAATGTTTCTGATCAGTGCTTCATCTGCTGGTCCTGAG
ATGTATGAAATTCACACCAATTCCAAGGAGGAACGCAATAACTGGATGAGACGGATCCAGCAGGCTGTA
GAAAGTTGTCCTGAAGAAAAAGGGGGAAGGACAAGTGAATCTGATGAAGACAAGAGGAAAGCTGAAGCC
AGAGTGGCCAAAATTCAGCAATGTCAAGAAATACTCACTAACCAAGACCAACAAATTTGTGCGTATTTG
GAGGAGAAGCTGCATATCTATGCTGAACTTGGAGAACTGAGCGGATTTGAGGACGTCCATCTAGAGCCC
CACCTCCTTATTAAACCTGACCCAGGCGAGCCTCCCCAGGCAGCCTCATTACTGGCAGCAGCACTGAAA
GAAGCTGAGAGCCTACAAGTTGCAGTGAAGGCCTCACAGATGGGCGCCGTGAGTCAATCATGTGAGGAC
AGTTGTGGAGACTCTGTCTTGGCGGACACACTCAGTTCTCATGATGTACCAGGATCACCGACTGCCTCA
TTAGTCACAGGAGGGAGAGAAGGAAGAGGCTGTTCGGATGTGGATCCCGGGATCCAGGGTGTGGTAACC
GACTTGGCCGTCTCTGATGCAGGGGAGAAGGTGGAATGTAGAAATTTTCCAGGTTCTTCACAATCAGAG
ATTATACAAGCCATACAGAATTTAACCCGTCTCTTATACAGCCTTCAGGCCGCCTTGACCATTCAGGAC
AGCCACATTGAGATCCACAGGCTGGTTCTCCAGCAGCAGGAGGGCCTGTCTCTCGGCCACTCTATCCTC
CGAGGCGGCCCCTTGCAGGACCAGAAGTCTCGCGACGCGGACAGGCAGCATGAGGAGCTGGCCAATGTG
CACCAGCTTCAGCACCAGCTCCAGCAGGAGCAGCGGCGCTGGCTGCGCAGGTGTGAGCAGCAGCAGCGG
GCGCAGGCGACCAGGGAGAGCTGGCTGCAGGAGCGGGAGCGGGAGTGCCAGTCGCAGGAGGAGCTGCTG
CTGCGGAGCCGGGGCGAGCTGGACCTCCAGCTCCAGGAGTACCAGCACAGCCTGGAGCGGCTGAGGGAG
GGCCAGCGCCTGGTGGAGAGGGAGCAGGCGAGGATGCGGGCCCAGCAGAGCCTGCTGGGCCACTGGAAG
CACGGCCGGCAGAGGAGCCTGCCCGCGGTGCTCCTTCCGGGTGGCCCCGAGGTAATGGAACTTAATCGA
TCTGAGAGTTTATGTCATGAAAACTCATTCTTCATCAATGAAGCTTTAGTACAAATGTCATTTAACACT
TTCAACAAACTGAATCCATCAGTTATCCATCAGGATGCCACTTACCCTACAACTCAATCTCATTCTGAC
TTGGTGAGGACTAGTGAACATCAAGTAGACCTCAAGGTGGACCCTTCTCAGCCTTCGAATGTCAGTCAC
AAACTGTGGACAGCCGCTGGTTCCGGCCATCAGATACTTCCTTTCCATGAAAGCAGCAAGGATTCTTGT
AAAAATGATTTGGACACCTCCCACACTGAGTCCCCAACCCCCCATGACTCAAATTCACACCGCCCTCAA
CTGCAGGCGTTTATAACAGAAGCAAAGCTAAATCTACCGACAAGGACAATGACCAGACAAGATGGGGAA
ACTGGAGATGGAGCCAAAGAAAATATTGTTTACCTCTAA

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN:	NM_001244364
Insert Size:	4179 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).
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_001244364.1
RefSeq Size:	5247 bp
RefSeq ORF:	4179 bp
Locus ID:	64283
UniProt ID:	Q8N1W1
Cytogenetics:	5q13.2
MW:	157.3 kDa

Gene Summary: This gene encodes a member of the Rho guanine nucleotide exchange factor family. The encoded protein interacts with low molecular weight neurofilament mRNA and may be involved in the formation of amyotrophic lateral sclerosis neurofilament aggregates. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2010] Transcript Variant: This variant (3) has multiple differences, compared to variant 1. These differences result in a distinct 5' UTR and cause translation initiation at an alternate start codon, compared to variant 1. The encoded protein (isoform 3) is shorter and has a distinct N-terminus, compared to isoform 1.