

Product datasheet for SC318604

ARHGEF10 (NM_014629) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGEF10 (NM_014629) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGEF10
Synonyms:	GEF10; SNCV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC318604 representing NM_014629. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACCAGCGAGAGCCCTGCCTCCCGCTCCTGCAGAAAATGAAATGAAATATGATACCAATAATAAT
GAAGAGGAAGAGGGAGAACAGTTCGATTTTGACAGTGGAGATGAAATCCCAGAAGCGGACAGACAGGCC
CCATCCGCCCCTGAGACAGGAGGTGCTGGAGCCAGTGAAGCCCTGCACCCACAGGAGGTGAGGATGGA
GCTGGAGCAGAAACACCCAGTGGCAGAGCCTACTAAGCTGGTGTCTCCGATGAAAGTCAACCCATAT
TCTGTCATCGACATCACGCCATTCCAGGAGGACCAGCCGCCACCCCGTGGCCAGCGCTGAGGAGGAG
AATGTGGGTCTCCATGTGCCCTGCGGGTACTTGGTGCCTGTACCCTGCGGCTATGCGGTGCCCTCCAAC
CTGCCCTCCTGTGCCCGCTACTCCAGCCCGGTATCATCTGCGCCACGTCCCTGGACGAAGAAGAA
ACACCAGAAGTCACAGAAGATCGCCAGCCCAATTCTCTGAGTTCCGAGGAGCCTCCAACCAAGTGAAGAT
CAAGTCGGTTCGAGAGGACAGCGCACTTGCCCGCTGGGCCGAGACCCGGCCAACACAGCCTGGATGGAG
AATCCAGAGGAAGCAATTTACGATGACGTTCCAAGGGAAAACCTCAGACTCTGAACCAGATGAAATGATT
TATGATGATGTTGAGAATGGGGATGAAGGTGGAACAGCTCCTTGAATACGGATGGAGTTTCAGTGAA
TTTGAAAGTTACGAAGAGCAGAGTGACTCGGAGTGCAAGAATGGGATTCAGGTCTTCTGCGCAGC
AACCACAAAAAGCACTTTCTCATGACCTAACCCGTTTAAAGGAGCACTATGAGAAAAAGATGAGAGAT
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GGCCGCTCCTTCATCAGGACCAAGTCTCTCATCGCACAGGATCACAGATCTTCTTGTAGGAAGAAGCAG
AATTTGTTTATTGATGTTGACTGCAAGCACCCGGAAGCCATCTTGACCCGATGCCCGAGGGTTTATCT
CAGCAGCAGGTTGTAAGAAGATATATACTGGGTTCAAGTGTGACAGTGAAGAAAGTACGTAGATGCT
CTTAAGAGGATTTGGAGCAATATGAGAAGCCGCTGTCTGAGATGGAGCCAAAGGTTCTGAGTGAGAGG
AAGCTGAAGACGGTGTCTACCGAGTCAAAGAGATCCTGCAGTGCCACTCGCTATTTAGATCGCGCTG
GCCAGCCGCTTCCGAGTGGGACTCCGTGAAATGATAGGCGATGTCTCGTGGCTTCTTTTCTAAG
TCCATGGTGTGATGCATACAGTGAATATGTGAACAATTCAGCACAGCCGTGGCAGTCTCAAGAAA



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ACATGTGCCACAAAGCCCGCTTTTCTTGAATTTTAAAGCAGGAACAGGAGGCCAGCCCCGATCGAACC
 ACGCTCTACAGCCTGATGATGAAGCCCATCCAGAGGTTCCACAGTTCATCCTCTGCTCCAGGACATG
 CTGAAGAACACCTCCAAAGGCCACCCCGACAGGCTGCCTCTTCAAGTGGCCCTGACAGAGCTCGAAACA
 CTAGCAGAGAAGTTAAATGAAAGAAAGAGAGATGCTGATCAACGCTGTGAAGTGAAGCAAATAGCCAAA
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 ATGATAGAAACAGTTTACAACGACAGAGGAGAGATTGTTAAAACCAAAGAACGCCGAGTCTTCATGTTA
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 AGGTACTTGCTGAAGTGGAGCGTTCCACTGGGACATGTGGACGCCATCGAGTATGGCAGCAGCGCAGGC
 ACGGGCGAGCACAGCAGGCACCTTGCCGTTACCCGCGGAGAGCCTGGCCGTGTTGCTAACGCGAAA
 CCAAACAAAGTTTACATGGGGCCAGGACAACCTGTATCAAGATTTACAAAACCTGTTGCATGACTTAAAT
 GTAATTGGCCAAATCACTCAGCTGATAGGAAACCTTAAAGGAACTATCAGAACTTAAACAGTCAGTA
 GCCCATGACTGGACATCAGGTTTACAAAGGCTTATTTTGAAGAAAGAAGTGAATCAGAGCTGCGGAC
 TGCTGCAGAAATCAGTTACAGCTTCCCGGAAGCAGGACAAATCTGGGCGACCGAGCTTCTTACAGCT
 GTGTTCAATACGTTACCCCTGCCATCAAGGAGTCTGGGTCAACAGCTTACAGATGGCCAAAGCTCGCC
 CTAGAAGAGGAGAACCACATGGGCTGGTCTGTGTGGAAGACGATGGGAATCACATTAAGAGGAGAAG
 CATCCTCTCCTCGTCGGACACATGCCCGTGATGGTGGCCAAGCAGCAGGAGTTCAAGATTGAATGTGCT
 GCTTATAACCTGAACCTTACCTAAATAATGAAAGCCAGCCAGATTCAATTTCCACGGCACATGGTTTC
 CTGTGGATCGGAAGTGCACCCATCAAATGGGTGAGATTGCCATCGTCTCGTTTCAAATTCCACTCCC
 AAAGTCATTGAGTGCTTCAACGTGGAATCTCGCATCCTGTGCATGCTGTACGTTCCCGTCGAGGAGAAG
 CGCAGAGAGCCTGGGGCACCCCGGACCCCGAGACCCCGCCGTGAGAGCTTCTGATGTCCACGATC
 TGTGTAGGGACGAGGAGGGAAGCATTTCCATTTATAAAGCAGTCAAGGCTCCAAGAAAGTGAGACTT
 CAGCACTTTTCACTCCTGAGAAGTCCACAGTCATGAGCCTGGCTGCAGTCTCAGAGCCTGTACGCT
 GGCCTGGTCAACGGGGCAGTCGCCAGCTACGCCAGAGCCCGAGATGGATCCTGGGATTGAGAACCTCAA
 AAAGTGATCAAGTTAGGCGTCTACCAAGTTAGAAGTCTACTCATGATGGAAGACAGTTGTGGGCGGCT
 TCCGGAGGTCAAGTCTTCATCATCAGTGTGGAGACTCATGCTGTAGAGGGTCAGTGGAGGCCACCAG
 GAGGAAGGCATGGTGATCTCCACATGGCGTGTCCGGCGTCGGGATCTGGATTGCCTTACCTCAGGG
 TCCACGCTCCGCCTTTTTCACACGGAACTCTCAAGCACCTGCAGGACATCAACATCGCCACCCCTGTT
 CACAACATGCTGCCAGGGCACCAGCGGTGTGGTGACGAGCCTGCTCGTCTGCCACGGATTGCTGATG
 GTCGGCACCAGCCTGGGAGTCTCGTGGCCCTGCCGTCCACGCTCTGCAAGGGATTCCCAAAGTGACC
 GGAAGAGGCATGGTCTCCTACCATGCACACAACAGTCTGTCAAATTCATCGTCTGGCCACGGCTCTG
 CACGAGAAAGACAAGGACAAATCCAGGGACAGCCTGGCTCCTGGCCCCGAGCCTCAGGACGAAGACCAG
 AAGGACGCACTTCCGAGTGGAGGAGCTGGTTCATCTCTGAGCCAGGGTGACCCTGACGCAGCCATCTGG
 TTGGGAGATTCTGCTGGGATCGATGACTCAGAAAAGCGACCTGTCTCTCATCTGGGTCCCTGAGCTTG
 TCTCAGGCTCCAGCTCTCTAGAGCACAGATCAGAGGACAGCACCATCTATGATCTCTGAAGGATCCT
 GTCTCGTCTGAGAAGCAAAGCACGCCGGGCCAAGAAAGCCAAGGCCAGCTCGGCGCTGGTGGTCTGTGGA
 GGGCAGGGCCACCGCGGGTGCACAGGAAGGCCCGGACGCCACCAGGAAGAGCTGGCGCCGACCGTC
 ATGGTCTGGCAGATCCCTCTGCTGAATATAA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

SgfI-MluI

ACCN:

NM_014629

Insert Size:

4035 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_014629.3
RefSeq Size:	5602 bp
RefSeq ORF:	4035 bp
Locus ID:	9639
UniProt ID:	O15013
Cytogenetics:	8p23.3
Domains:	RhoGEF
Protein Families:	Druggable Genome
MW:	148.9 kDa
Gene Summary:	This gene encodes a Rho guanine nucleotide exchange factor (GEF). Rho GEFs regulate the activity of small Rho GTPases by stimulating the exchange of guanine diphosphate (GDP) for guanine triphosphate (GTP) and may play a role in neural morphogenesis. Mutations in this gene are associated with slowed nerve conduction velocity (SNCV). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015] Transcript Variant: This variant (1) encodes isoform (1).