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Product datasheet for SC114960

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:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014629, the custom clone sequence may differ by one or more nucleotides

ATGGACCAGCGAGAGCCCCTGCCTCCCGCTCCTGCAGAAAATGAAATGAAATATGATACCAATAATAATG
AAGAGGAAGAGGGAGAACAGTTCGATTTTGACAGTGGAGATGAAATCCCAGAAGCGGACAGACAGGCCCC
ATCCGCCCCTGAGACAGGAGGTGCTGGAGCCAGTGAAGCCCCTGCACCCACAGGAGGTGAGGATGGAGCT
GGAGCAGAAACCACCCCAGTGGCAGAGCCTACTAAGCTGGTGCTCCCGATGAAAGTCAACCCATATTCTG
TCATCGACATCACGCCATTCCAGGAGGACCAGCCGCCCACCCCCGTGCCCAGCGCTGAGGAGGAGAATGT
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GAAGCAATTTACGATGACGTTCCAAGGGAAAACTCAGACTCTGAACCAGATGAAATGATTTATGATGATG
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CGAAGAGCAGAGTGACTCGGAGTGCAAGAATGGGATTCCCAGGTCCTTCCTGCGCAGCAACCACAAAAAG
CAACTTTCTCATGACCTAACCCGTTTAAAGGAGCACTATGAGAAAAAGATGAGAGATTTGATGGCAAGCA
CGGTGGGCGTGGTGGAGATTCAGCAGCTCAGGCAGAAGCATGAACTGAAGATGCAGAAGCTCGTGAAGGC
CGCGAAGGACGGCACCAAGGACGGGCTGGAGAGGACCAGGGCAGCCGTGAAGAGGGGCCGCTCCTTCATC
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AAGATATATACTGGGTTCAGTTGTCGACAGTGAAAAGAACTACGTAGATGCTCTTAAGAGGATTTTGGAG
CAATATGAGAAGCCGCTGTCTGAGATGGAGCCAAAGGTTCTGAGTGAGAGGAAGCTGAAGACGGTGTTCT
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AGTGAATATGTGAACAATTTCAGCACAGCCGTGGCAGTCCTCAAGAAAACATGTGCCACAAAGCCCGCTT
TTCTTGAATTTTTAAAGCAGGAACAGGAGGCCAGCCCCGATCGAACCACGCTCTACAGCCTGATGATGAA

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GCCCATCCAGAGGTTCCCACAGTTCATCCTCCTGCTCCAGGACATGCTGAAGAACACCTCCAAAGGCCAC
CCCGACAGGCTGCCTCTTCAGATGGCCCTGACAGAGCTCGAAACACTAGCAGAGAAGTTAAATGAAAGAA
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GGTGGTCTGTGGAGGGCAGGGCCACCGCCGGGTGCACAGGAAGGCCCGGCAGCCCCACCAGGAAGAGCTG
GCGCCGACCGTCATGGTCTGGCAGATCCCTCTGCTGAATATATAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014629 unedited
ACACCACGGCGTGTAGGGGGTAGAGGTTCTAAGACAGTCTGGTGGGAGAGTGCAGACACA
CCCGGGGCCGTGTAGGGGGTACAGGTTCTAAGACAGTCTGGTGGGAGAGTGCATACACAC
ACGGGGCTGTGTCGGGGATAGAGGTTCTAAGACAGTCTGGTGGGAGAGTGCAGACACACA
CCAGGGCGTGTACGGGGTGGAGGTTCTAAGACAGGCTGGAGGAACAGTGGAGACACACAC
TGGGGAGCATAGGGGTGCTTTTCTCTGAGTCCCCTAGTACATGGTAGAGGCTGTAGACCC
TCCGCTCTTGGGCACGTGGGTAGGCTCTCAGGATGACTCTTGGCTCTTGGGCATGTGGGT
GAGCTCTCAGGATGATGCCCAGCCCCAATTTTCAGGCAATTGTGCAAGGACTTGACCCAT
TCATCCGCTGAGCTGAGTTGCTGAGACTGCTGGGTGCCCGGGTGGTGATCATTGTCCGTG
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CAAGTTCATGTCTAATCTTGCATTTACAGTGAAAGCATGTGTTGGCTTTGAATGCTACTT
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NTACAGTGATGATTGTGGATGCATAAGAATA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014629 unedited
TTAGCTTTGGACCGGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTACTGCA
TTTTAAAATAAAAATACTTTATTGATGAAGTCAGACAGCAGCTAACAGTTTGAGAAGCTT
GGGAAGAAATCACTTTCACATGGGGGATATATGCAACCTAGAACATATTTGGCTAAGTCA
TAAAATTAACATTTTTAGTCATCTGTAAAGTGCTGAGACATTTATTTCTGGTGACTGCCT
GTGTTAGGATTTTTTTCTTGTTATCCGTCCAGTAAGTGAAACACTGAAATACACGTTCAG
CAGGATGGCGCTCACTAAGTATGCACCTTGACATGATGGTGTGCACTCATTATGCACGTT
CTCACGCGGGGCTGGCTCTGCAACTGCAGAATAGAAACTGATGCGTTCTGCAGAGGAGGC
GTCTGCACAACAGACAGGCTGGCCCGAGGTCACGCCTCTTGGCCTGAGTCCCGCTCAGTG
ACAGCAGCCAGCATGGCCTAGCACCAGGAGTCATTCGGAGCGTGCGTGCTAAAGCAGACA
CAGCATTCCACGTCAACAGGGGCAAGAAGCTGCACGAAGGAACTAAGCAAGACTTCTCTG
CCTATCTCCTCTAATACTAAAGCACACACTTTTCTCCTGTGGATAGTCACTCTATTTATA
CGAGAAGGGAGGAAATATTTGGTGTTGATGCTTGAGTCCAAATGGTGATAGGCACTGAGC
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NACTGTTAATTTTTTTATAGAAAAATGCCATCCAAAATTATACCTTTGTAAATATACAGT
CCCACCTTTTACCACTTGGAAAACCCACCTCACTCTGAAAGCAATATGCTACCTNACTGG
AGGGGTACCTGGCTTTAAAATGTTACAATTTACCTTGAATCAAAATTAAAA

Restriction Sites: NotI-NotI

ACCN: NM_014629

Insert Size: 4600 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_014629.1, NP_055444.1

RefSeq Size: 5595 bp

RefSeq ORF: 5595 bp

Locus ID: 9639

UniProt ID: O15013

Cytogenetics: 8p23.3

Domains: RhoGEF

Protein Families: Druggable Genome

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).