

Product datasheet for **SC100230**

ARHGEF6 (NM_004840) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGEF6 (NM_004840) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGEF6
Synonyms:	alpha-PIX; alphaPIX; Cool-2; COOL2; MRX46; PIXA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_004840 edited
 ATGAATCCAGAAGAACAAATCGTGACATGGCTTATATCTTTGGGAGTTTTAGAGTCCCCT
 AAAAAGACCATCTGTGATCCGGAGGAGTTTTAAAGTCCTCGCTGAAAAATGGGGTAGTT
 CTGTGCAAACCTGATCAACAGACTCATGCCTGGCTCTGTGGAAAAGTTTTGTCTGGATCCC
 CAAACTGAAGCTGACTGCATCAACAACATCAATGACTTCTGAAAGGATGTGCAACCCTC
 CAAGTGGAAATATTTGATCCTGATGACCTTTATTCAGGGGTCAATTTCTCCAAGTACTG
 AGTACTCTTTTAGCTGTCAACAAAGCAACAGAAGATCAGCTATCAGAAAGACCATGTGGA
 CGTTCCTCTTCTTAGTGCTGCTAATACTTCTCAGACAAACCCACAGGGAGCAGTTTCT
 AGCACAGTTTCAGGGCTGCAAAGGCAGTCAAAGACAGTGGAGATGACGGAAAAATGGAAGT
 CATCAGTTGATAGTAAAAGCAAGATTCAACTTTAAGCAGACTAATGAGGATGAACTGTCA
 GTTTGTAAGGGGACATCATTTACGTACACAGTGAAGAAGGAGGCTGGTGGGAAGGC
 ACATTAATGGGAGAACAGGCTGGTTCCCGTAAATTATGTCCGTGAAATTAATCCAGT
 GAGAGACCTCTCCCCAAAAGCCGTCAAAGGATTTGAAACTGCTCCACTACCAAGAAT
 TATTATACTGTGGTGTACAGAACATCCTGGACACTGAAAAAGAATATGCTAAAGAACTT
 CAGTCTCTTCTTGTACTTACTTAAAGACCCTGCAGTCCAATAACAATCTGAGTACTGTG
 GAGGTTACATCTTACTGGGAACTTCGAGGAAGTATGCACATTTCAACAGACACTCTGC
 CAAGCCTTGAAGAATGTTCAAAGTTTCCAGAAAACCAGCACAAAAGTAGGAGGTTGTCTA
 CTGAGTCTCATGCCTCATTTTAAATCTATGTATCTGGCTTACTGTGCAAACCATCCTTCA
 GCTGTAATGTGCTCACTCAGCAGAGTATGAGTTGGAACAATTCATGAAAAATCAAGGT
 GCATCGAGCCCAGGTATCCTCATTTTAAACAACAAACCTCAGCAAACCATTCATGCGACTG
 GAGAAATATGTTACTCTTGAAGAGTTAGAACGGCATATGGAGGATACTCATCCAGAT
 CATCAGGATATTTGAAAGCAATCGTAGCATTCAAACCTCATGGGGCAATGTCAAGAT
 CTGAGGAAGAGAAAAACAGCTGGAGTTACAGATACTGCCGAACCTATTCAGGCATGGGAA
 GGAGAAGATATTAACAACTTGGGAAATGTGATTTTTATGTCACAAGTAATGGTGCAGTAT
 GGAGCATGTGAGGAAAAAGAGGACGGTACCTTATGTTATTTTCAAATGCCTGATAATG
 TTATCTGCAAGTCTCGGATGAGTGGCTTTATCTATCAGGGAAAAATACCAATAGCAGGA
 ACGGTGGTACTAGATTAGATGAAATTGAAGGGAATGACTGCACATTTGAAATCACTGGT
 AACACAGTGGAGAGAATTGTGGTCCATTGTAACAACAACCAGGACTTCCAGGAATGGTTG
 GAGCAGCTGAACAGACTGATCAGAGGACCTGCCTCTTGCAAGTTCATTATCCAAAACCTCA
 TCGTCATCATGTAGTCTCATTCTTTTAGCTCTACCGGACAGCCCCGAGGACCCTTG
 GAGCCTCCTCAAATTATAAAACCGTGGAGTTTAAAGTTGTCTACGACCTGCACCTCCTT
 AGACCATCAGCAGCACTAGGTTATAAAGAGAGGATGTCTTATATCTTAAAGGAGTCTAGT
 AAAAGCCCTAAAACGATGAAGAAATTTCTCATAAAAGGAAGACTGAGAGAAAACCATCG
 GAGGAGGAATATGTGATTAGGAAAAGTACAGCTGCTCTGGAAGAGGATGCTCAAATCCTT
 AAAGTGATCGAAGCCTACTGCACCAGCGCAAAATTTCAACAAGGCCATGGCTCAAGTACT
 CGAAAAGATTCCATTCCACAAGTCTACTCCCTGAGGAAGAGAACTCATCATTGAAGAA
 ACCAGAAGCAACGGCCAGACCATCATGGAAGAAAAGAGCCTTGTGATACTGTTTACGCC
 TTGAAGGACGAGGTGAGAGAACTGAAGCAGGAAAAATAAAGAATGAAGCAATGCCTGGAA
 GAAGAAGTGAATCAAGAAGGGACCTAGAAAAGCTGGTGGGAGGCTTTTGAAGCAAACA
 GATGAGTGTATTGAGGGGAGTCCAGTAGCAAGACCTCAATTCCTCCATAA

Restriction Sites: Please inquire

ACCN: NM_004840

Insert Size: 5000 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:	<ol style="list-style-type: none">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_004840.2 , NP_004831.1
RefSeq Size:	5282 bp
RefSeq ORF:	2331 bp
Locus ID:	9459
UniProt ID:	Q15052
Cytogenetics:	Xq26.3
Domains:	RhoGEF, SH3, CH, PH
Protein Families:	Druggable Genome
Protein Pathways:	Pancreatic cancer, Regulation of actin cytoskeleton
Gene Summary:	<p>Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein belongs to a family of cytoplasmic proteins that activate the Ras-like family of Rho proteins by exchanging bound GDP for GTP. It may form a complex with G proteins and stimulate Rho-dependent signals. This protein is activated by PI3-kinase. Mutations in this gene can cause X-chromosomal non-specific cognitive disability. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>