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Product datasheet for SC303052

APXL (SHROOM2) (NM_001649) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APXL (SHROOM2) (NM_001649) Human Untagged Clone
Tag:	Tag Free
Symbol:	APXL
Synonyms:	APXL; HSAPXL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC303052 representing NM_001649.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGGGCGCCGAGCCCCGCGCGCGGCCCGAGCGCCTGGCCGAGGCCGAGACGCGGGCGGCGGACGGC
GGGCGCCTGGTGGAGGTGCAGCTGAGCGGCGGCGCCCCGTGGGGCTTCACCCTGAAGGGCGGCCGCGAG
CACGGCGAGCCGCTGGTCATCACCAAGATTGAAGAGGGCAGTAAAGCCGCGGCGGTCGACAAGTTACTG
GCTGGAGATGAGATCGTCGGCATCAATGACATTGGTCTCTCAGGGTTTAGACAGGAAGCGATTTGCCTG
GTGAAGGGGTCCCATAAGACCCTGAAGCTGGTCGTCAAAAGGAGGAGCGAGCTGGGCTGGAGGCCTCAC
TCCTGGCATGCCACCAAGTTCTCTGACAGCCACCCCGAGCTAGCGGCCTCCCCATTCACCTCCACCAGC
GGCTGTCCTTCCTGGTCCGGCCGACACCACGCGAGTTCTTCCTCCCACGACCTGTCCAGTTCCTGGGAG
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TCCAGTCGCCTCTCGGTGGCCAAGTCCAACAGCAGCATCGACCACCTGGGCAGCCACAGCAAGCGCGAC
TCGGCCTACGGCTCCTTCTCCACCAGCTCTAGCACTCCTGACCACACCTTGTCCAAAGCCGACACGTCC
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GCCGCAGGCGACCCTCAGGGCTCGGAGGAGAAGCTCAGTTGTTTCCCGCCCAGGGTCCCCGGTGACAGC
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AGTGACAGCTTTGCTGCCACCAAGAGCCACGAGAAGGCCCAGGGCCCTGTGTTCTCAGAGGCGGCTGCG
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CCTTGGAGGTCAGCACACCCGGGGAGCCTCGGGAAGGGATCGGGAGGCCCGGGCTGCCCACAGGAGGCC
CACGCAGACGGCAGCTGGCCGCCCTCCAAGGATGGAGCTTCCAGTAGGCTGCAGGCCTCTCTGTCCAGC
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GACCTGCAAGCAGCACAGCTCTGGGCGGGATGCTGGCCTTCTGACACAGCCCTTGGAGCCCTCGAGAGT

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CTTCCCCCACCCACGGTGGGCCAGAGCCCACGCCATCACCTACCTCAGCCTGAGGGTCCTCCGGATGCC
CGCGAGACAGGACGGTGTTACCCGCTGGACAAAGGGGCCGAGGGCTGCTCCGCGGGAGCCCAGGAGCCT
CCCAGGGCCAGCCGTGCAGAAAAAGCCAGCCAGAGGCTGGCAGCCAGCATCACGTGGGCAGATGGGGAG
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TCTTCACCGTCCACAGACCACTACAAGCAGGAAGCTTCTGTCGAACTGCGAAGGCAGGCAGGGGACCCC
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CTGCTCCCTCCCAAGCAGCAGCACCTGCGCCTGCAGACGGCCACCATGGAGACCTCGCGCTCCCCCTCG
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CAGCCAGAGAAGGAGAGCCGCCAGAGCCTGGCATGCCCCGCCGAGCCACCTGCCCTGCCCCACGGGCTG
GAGAAAGACCAGATCAAGACGCTGAGCACATCTGAGCAGTTCTACTCGCGCTTCTGTCTGTACACGCGG
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GAAGACCTGAAGTCGGAGGAGCTGGCCAGGGAGATCGTGGGGAAGGATAAGTCCCTGGCCGACATCCTG
GATCCCAGTGTGAAGATCAAAACCACTATGGACTTGATGGAAGGCATCTTCCCCAAAGACGAGCACCTC
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CCCAAGGCGGAGCTGCTGATCAAGATGAAGGACCTGCAGGAGCAGCAGGAGCACGAAGAGGATTCGGGA
AGCGACTTGGACCACGACCTGTCGGTGAAGAAGCAGGAGCTCATCGAGAGCATCAGCCGCAAGCTGCAG
GTGCTCCGGGAGGCCCGCGAGAGCCTGCTGGAGGACGTGCAGGCCAACACCGTGCTGGGGGCCGAGGTG
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GACAAAGTGGTGAACCTCCTGCTGTCGCTGTCAGGCCGCCTGGCCCGGGTGGAGAATGCCCTCAATAAT
TTGGACGACGGCGCTTCTCCCGGTGATCGGCAATCACTGCTTGAGAAGCAGAGAGTCCTGATCCAGCAG
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GAGCAGCGGGAGCTGGAAGATAAAATCCACCTTGGTGAAGAGCAGCTGAAGTGCTTATTGGACAGCCTT
CAGCCCGAAAGGGGCAAATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001649
Insert Size:	4851 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_001649.3
RefSeq Size:	7463 bp
RefSeq ORF:	4851 bp
Locus ID:	357
UniProt ID:	Q13796
Cytogenetics:	Xp22.2
Protein Families:	Druggable Genome
MW:	176.4 kDa
Gene Summary:	This gene represents the human homolog of Xenopus laevis apical protein (APX) gene, which is implicated in amiloride-sensitive sodium channel activity. It is expressed in endothelial cells and facilitates the formation of a contractile network within endothelial cells. Depletion of this gene results in an increase in endothelial sprouting, migration, and angiogenesis. This gene is highly expressed in the retina, and is a strong candidate for ocular albinism type 1 syndrome. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2016] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).