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Product datasheet for SC122813

APEX2 (NM_014481) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APEX2 (NM_014481) Human Untagged Clone
Tag:	Tag Free
Symbol:	APEX2
Synonyms:	APE2; APEXL2; XTH2; ZGRF2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_014481 edited
AGGTTGGCGCGGGCTGGGAGGTGTTCCAGCCCTTTAAGATGTTGCGCGTGGTGAGCTGGA
ACATCAATGGGATTCGGAGACCCCTGCAAGGGGTGGCAAATCAGGAACCCAGCAACTGTG
CCGCCGTGGCCGTGGGGCGCATTTTGGACGAGCTGGATGCGGATATCGTCTGTCTCCAGG
AAACCAAAGTGACCAGGGATGCACTGACAGAGCCCCTGGCTATCGTTGAGGGTTATAACT
CCTATTTCAGCTTCAGCCGCAACCGTAGCGGCTATTCTGGTGTAGCCACCTTCTGTAAGG
ACAATGCTACCCCAGTGGCTGCTGAAGAAGGCCTGAGTGGCCTGTTTGCCACCCAGAATG
GGGATGTTGGTTGCTATGGAAACATGGATGAGTTTACCCAAGAGGAACTCCGGGCTCTGG
ATAGTGAGGGCAGGGCCCTCCTCACACAGCATAAGATCCGCACATGGGAAGGTAAGGAGA
AGACCTTGACCCTAATCAACGTGTACTGCCCCCATGCGGACCCTGGGAGGCCTGAGCGGC
TAGTCTTTAAGATGCGCTTCTATCGTTTGCTGCAAATCCGAGCAGAAGCCCTCCTGGCGG
CAGGCAGCCATGTGATCATTCTGGGTGACCTGAATACAGCCCACCGCCCCATTGACCACT
GGGATGCAGTCAACCTGGAATGCTTTGAAGAGGACCCAGGGCGCAAGTGGATGGACAGCT
TGCTCAGTAACTTGGGGTGCCAGTCTGCCTCTCATGTAGGGCCCTTCATCGATAGCTACC
GCTGCTTCCAACCAAAGCAGGAGGGGGCCTTCACCTGCTGGTCAGCAGTCACTGGCGCCC
GCCATCTCAACTATGGCTCCCGGCTTGACTATGTGCTGGGGGACAGGACCCTGGTCATAG
ACACCTTTCAGGCCTCTTTCCTGCTGCCTGAGGTGATGGGCTCTGACCACTGCCCTGTGG
GTGCAGTCTTGAGTGTGTCCTCTGTGCCTGCAAAACAGTGCCCACCTCTGTGCACCCGCT
TCCTCCCTGAGTTTGCAGGCACCCAGCTCAAGATCCTTCGCTTCCTAGTTCCTCTCGAAC
AAAGTCCTGTGTTGGAGCAGTCGACGCTGCAGCACAACAATCAAACCCGGGTACAGACAT
GCCAAAACAAAGCCCAAGTGCGCTCAACCAGGCCTCAGCCCAGTCAGGTTGGCTCTAGCA
GAGGCCAGAAAAACCTGAAGAGCTACTTTCAGCCCTCCCCTAGCTGTCCCCAAGCCTCTC
CTGACATAGAGCTGCCTAGCCTACCACTGATGAGCGCCCTCATGACCCCGAAGACTCCAG
AAGAGAAGGCAGTGGCCAAAGTGGTGAAGGGGCAGGCCAAGACTTCAGAAGCCAAAGATG
AGAAGGAGTTACGGACCTCATTCTGGAAGTCTGTGCTGGCGGGGCCCTTGCGCACACCCC
TCTGTGGGGGCCACAGGGAGCCATGTGTGATGCGTACTGTGAAGAAGCCAGGACCCAACT
TGGGCCGCCGCTTCTACATGTGTGCCAGGCCCCGGGGTCCTCCCACTGACCCCTCCTCCC
GGTGCAACTTCTTCCTCTGGAGCAGGCCCAGCTGAACCAATGGAGGCCTGGGGACATCTG
GCATGGTCACCCCTGCACATGATCTGAGGCCAGCTCCCCTTCCCTGAGCTGCCTCCTGCT
TCTCCCTCAAAGTCTCCTACCCTTCTCTTCCTCTTTTAAGCCCTCTCTTCCTCGCTTTCC
TTCCTACCTAGCTCCTTGTTGGTGAGCTTCTTGTGCCTTAATCCTGTGACCCAGCCCCTT
ACACCACTTTCCACCTTCCTGTCCGAAGTACACGGACACTAGCTGCCCCAGGAAGTTGTG
TGATTTTAAATCACTTCTGTCTTTGCTGGAAAGTGTATTTGTGCATAAATAAAGTCTGTG
TATTTGTTTCAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014481 unedited
NAACGTCGAAATTGTAAACGCCTCCTATAGGCGGCCGCGACATTCGCACGAGGAGGTTGG
CGCGGGCTGGGAGGTGTTCCAGCCCTTTAAGAGTTGCGCGTGGTGAGCTGGAACATCAAT
GGGATTCGGAGACCCCTGCAAGGGGTGGCAAATCAGGAACCCAGCAACTGTGCCGCCGTG
GCCGTGGGGCGCATTTTGGACGAGCTGGATGCGGATATCGTCTGTCTCCAGGAAACCAAA
GTGACCAGGGATGCACTGACAGAGCCCCTGGCTATCGTTGAGGGTTATAACTCCTATTTC
AGCTTCAGCCGCAACCGTAGCGGCTATTCTGGTGTAGCCACCTTCTGTAAGGACAATGCT
ACCCCAGTGGCTGCTGAAGAAGGCCTGAGTGGCCTGTTTGCCACCCAGAATGGGGATGTT
GGTTGCTATGGAAACATGGATGAGTTTACCCAAGAGGAACTCCGGGCTCTGGATAGTGAG
GGCAGGGCCCTCCTCACACAGCATAAGATCCGCACATGGGAAGGTAAGGAGAAGACCTTG
ACCCTAATCAACGTGTACTGCCCCCATGCGGACCCTGGGAGGCCTGAGCGGCTAGTCTTT
AAGATGCGCTTCTATCGTTTGCTGCAAATCCGAGCAGAAGCCCTCCTGGCGGCAGGCAGC
CATGTGATCATTCTGGGTGACCTGAATACAGCCCACCGCCCCATTGACCACTGGGATGCA
GTCAACCTGGAATGCTTTGAAGAGGACCCAGGGCGCAAGTGGATGGACAGCTTGCTCAGT
AACTTGGGGTGGCAGTCTGCCTCTCATGTAGGGCCCTTCATCGATAGCTACCGCTGCTTC
CAACCAAAGCAGGAGGGGGCCTTCACCTGCTGGTCAGCAGTCACTGGCGCCCGCCATCTC
ACTATGGCTCCCGGCTTGACTATGTGCTGGGGGGACAGA

Restriction Sites:	Please inquire
ACCN:	NM_014481
Insert Size:	1953 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_014481.2, NP_055296.2
RefSeq Size:	1991 bp
RefSeq ORF:	1557 bp
Locus ID:	27301
UniProt ID:	Q9UBZ4
Cytogenetics:	Xp11.21
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair
Gene Summary:	Apurinic/apyrimidinic (AP) sites occur frequently in DNA molecules by spontaneous hydrolysis, by DNA damaging agents or by DNA glycosylases that remove specific abnormal bases. AP sites are pre-mutagenic lesions that can prevent normal DNA replication so the cell contains systems to identify and repair such sites. Class II AP endonucleases cleave the phosphodiester backbone 5' to the AP site. This gene encodes a protein shown to have a weak class II AP endonuclease activity. Most of the encoded protein is located in the nucleus but some is also present in mitochondria. This protein may play an important role in both nuclear and mitochondrial base excision repair. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2012] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).