

# Product datasheet for SC320587

## APE1 (APEX1) (NM 001641) Human Untagged Clone

**Expression Plasmids** 

## **Product data:**

**Product Type:** 

Tag:

Symbol:

Selection: Vector:

### **Product Name:** APE1 (APEX1) (NM\_001641) Human Untagged Clone Tag Free APE1 Synonyms: APE; APE1; APEN; APEX; APX; HAP1; REF1 Mammalian Cell Neomycin pCMV6-AC (PS100020) E. coli Selection: Ampicillin (100 ug/mL) **Fully Sequenced ORF:** >OriGene sequence for NM\_001641.2 GAGGAGCTAGGCTGCCATCGGGCCGGTGCAGATACGGGGTTGCTCTTTTGCTCATAAGAG TTGGCTGGAGGGCAGATCTCGCGAGTAGGGCAACGCGGTAAAAATATTGCTTCGGTGGGT GACGCGGTACAGCTGCCCAAGGGCGTTCGTAACGGGAATGCCGAAGCGTGGGAAAAAGGG AGCGGTGGCGGAAGACGGGGGATGAGCTCAGGACAGAGCCAGAGGCCAAGAAGAGTAAGAC GGCCGCAAAGAAAATGACAAAGAGGCAGCAGGAGAGGGCCCAGCCCTGTATGAGGACCC CCCAGATCAGAAAACCTCACCCAGTGGCAAACCTGCCACACTCAAGATCTGCTCTTGGAA CCCAGATATACTGTGCCTTCAAGAGACCAAATGTTCAGAGAACAAACTACCAGCTGAACT CAGTGGCGTGGGCCTGCTTTCCCGCCAGTGCCCACTCAAAGTTTCTTACGGCATAGGCGA GGAGGAGCATGATCAGGAAGGCCGGGTGATTGTGGCTGAATTTGACTCGTTTGTGCTGGT AACAGCATATGTACCTAATGCAGGCCGAGGTCTGGTACGACTGGAGTACCGGCAGCGCTG GGATGAAGCCTTTCGCAAGTTCCTGAAGGGCCTGGCTTCCCGAAAGCCCCTTGTGCTGTG TGGAGACCTCAATGTGGCACATGAAGAAATTGACCTTCGCAACCCCAAGGGGAACAAAAA GAATGCTGGCTTCACGCCACAAGAGCGCCAAGGCTTCGGGGAATTACTGCAGGCTGTGCC ACTGGCTGACAGCTTTAGGCACCTCTACCCCAACACCCCTATGCCTACACCTTTTGGAC TTATATGATGAATGCTCGATCCAAGAATGTTGGTTGGCGCCCTTGATTACTTTTGTTGTC CCACTCTCTGTTACCTGCATTGTGTGACAGCAAGATCCGTTCCAAGGCCCTCGGCAGTGA TCACTGTCCTATCACCCTATACCTAGCACTGTGACACCACCCCTAAATCACTTTGAGCCT GGGAAATAAGCCCCCTCAACTACCATTCCTTCTTAAACACTCTTCAGAGAAATCTGCAT TCTATTTCTCATGTATAAAACTAGGAATCCTCCAACCAGGCTCCTGTGATAGAGTTCTTT

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## **PORIGENE** APE1 (APEX1) (NM\_001641) Human Untagged Clone – SC320587

Restriction Sites:	Please inquire
ACCN:	NM_001641
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 001641.2, NP 001632.2</u>
RefSeq Size:	1574 bp
RefSeq ORF:	957 bp
Locus ID:	328
UniProt ID:	<u>P27695</u>
Cytogenetics:	14q11.2
Domains:	Exo_endo_phos
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
Protein Pathways:	Base excision repair

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### SC320587 GENE APE1 (APEX1) (NM\_001641) Human Untagged Clone – SC320587

Gene Summary: The APEX gene encodes the major AP endonuclease in human cells. It encodes the APEX endonuclease, a DNA repair enzyme with apurinic/apyrimidinic (AP) activity. Such AP activity sites occur frequently in DNA molecules by spontaneous hydrolysis, by DNA damaging agents or by DNA glycosylases that remove specific abnormal bases. The AP sites are the most frequent pre-mutagenic lesions that can prevent normal DNA replication. Splice variants have been found for this gene; all encode the same protein. Disruptions in the biological functions related to APEX are associated with many various malignancies and neurodegenerative diseases.[provided by RefSeq, Dec 2019]

Transcript Variant: This variant (1) contains the full-length first exon and is the longest transcript. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

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