

Product datasheet for **SC116762**

HINT1 (NM_005340) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HINT1 (NM_005340) Human Untagged Clone
Tag:	Tag Free
Symbol:	HINT1
Synonyms:	HINT; NMAN; PKCI-1; PRKCNH1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116762 sequence for NM_005340 edited (data generated by NextGen Sequencing) ATGGCAGATGAGATTGCCAAGGCTCAGGTCGCTCGGCCTGGTGGCGACACGATCTTTGGG AAGATCATCCGCAAGGAAATACCAGCCAAAATCATTTTTGAGGATGACCGGTGCCTTGCT TTCCATGACATTTCCCTCAAGCACCAACACATTTTCTGGTGATACCCAAGAAACATATA TCCAGATTTCTGTGGCAGAAGATGATGATGAAAGTCTTCTGGACACTTAATGATTGTT GGCAAGAAATGTGCTGCTGATCTGGCCTGAATAAGGGTTATCGAATGGTGGTGAATGAA GGTTCAGATGGTGGACAGTCTGTCTATCACGTTTCATCTCCATGTTCTTGGAGGTCGGCAA ATGCATTGGCCTCCTGGTTAA

Clone variation with respect to NM_005340.5



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005340 unedited NGTAACGTACAAATTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGGCCT CGTGCCGAATTCGGCACGAGGCCGAGCCTCCTCTGGCCGCCGCGGGAGAGAGGCCG AGATGGCAGATGAGATTGCCAAGGCTCAGGTCGCTCGGCCTGGTGGCGACACGATCTTTG GGAAGATCATCCGAAGGAAATACCAGCCAAAATCATTTTTGAGGATGACCGGTGCCTTG CTTTCCATGACATTTCCCTCAAGCACCAACACATTTTCTGGTGATACCCAAGAAACATA TATCCCAGATTTCTGTGGCAGAAGATGATGATGAAAGTCTTCTTGACACTTAATGATTG TTGGCAAGAAATGTGCTGCTGATCTGGCCTGAATAAGGGTTATCGAATGGTGGTGAATG AAGTTTCAGATGGTGGACAGTCTGTCTATCACGTTTCATCTCCATGTTCTTGAGGTCCGGC AAATGCATTGGCCTCCTGGTTAAGCACGTTTTGGGGATAATTTCTCTTTTAGGCAAT GATTAAGTTAGGCAATTTCCAGTATGTTAAGTAACACACTTATTTTGCCTGTGTATGGA GAGATTCAAGAAATAATTTAAACCGCATACATAATAAAAGACATTGTTGCATGGCTTA TAGTCTCTGAGTGTTCGTTTTGATTTGTTATTTTAAAAACATATTTGTTGGAATATGT GAAGGGTGGGTTTATAATTTGGGATGGTTTCTTGCTTTTCTTCCCAAGGAGGACTCAA CATATGAACATCGCATTGTTTTAATGGTGTACTAGTCTTTGAAGACAAATAATGAGAGT TTATAATTTAGCTTTAACTTCGAAATATCTTTCCAGCCTAAAATAGGTCCCCTTAN
Restriction Sites:	NotI-NotI
ACCN:	NM_005340
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:	<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_005340.3 , NP_005331.1
RefSeq Size:	675 bp
RefSeq ORF:	381 bp
Locus ID:	3094
UniProt ID:	P49773
Cytogenetics:	5q23.3
Domains:	HIT

Gene Summary:

This gene encodes a protein that hydrolyzes purine nucleotide phosphoramidates substrates, including AMP-morpholidate, AMP-N-alanine methyl ester, AMP-alpha-acetyl lysine methyl ester, and AMP-NH₂. The encoded protein interacts with these substrates via a histidine triad motif. This gene is considered a tumor suppressor gene. In addition, mutations in this gene can cause autosomal recessive neuromyotonia and axonal neuropathy. There are several related pseudogenes on chromosome 7. Several transcript variants have been observed. [provided by RefSeq, Dec 2015]

Transcript Variant: This variant (1) encodes the functional protein.