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Product datasheet for RC203319

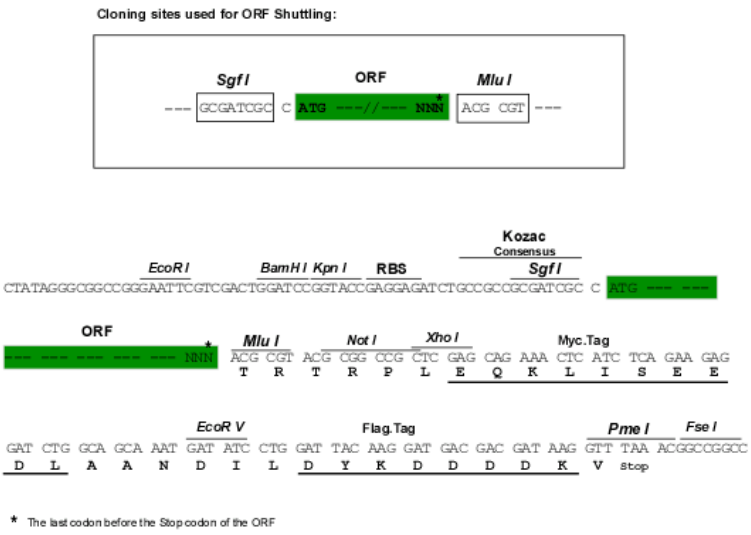
HINT1 (NM_005340) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HINT1 (NM_005340) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HINT1
Synonyms:	HINT; NMAN; PKCI-1; PRKCNH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203319 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCAGATGAGATTGCCAAGGCTCAGGTCGCTCGGCCTGGTGGCGACACGATCTTTGGGAAGATCATCC GCAAGGAAATACCAGCCAAAATCATTTTTGAGGATGACCGGTGCCTTGCTTTCCATGACATTTCCCCTCA AGCACCAACACATTTTCTGGTGATACCCAAGAAACATATATCCCAGATTTCTGTGGCAGAAGATGATGAT GAAAGTCTTCTTGGACACTTAATGATTGTTGGCAAGAAATGTGCTGCTGATCTGGGCCTGAATAAGGGTT ATCGAATGGTGGTGAATGAAGGTTCAGATGGTGGACAGTCTGTCTATCACGTTCATCTCCATGTTCTTGG AGGTCGGCAAATGCATTGGCCTCCTGGT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC203319 protein sequence Red=Cloning site Green=Tags(s) MADEIAKAQVARPGGDTIFGKIIRKEIPAKIIFEDDRCLAFHDISPQAPTHFLVIPKKHISQISVAEDDD ESLLGHLMIVGKKCAADLGLNKGYRMVVNEGSDGGQSVYHVHLHVLGGRQMHWPPG TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6416_d03.zip
Restriction Sites:	SgfI-MluI

View online »

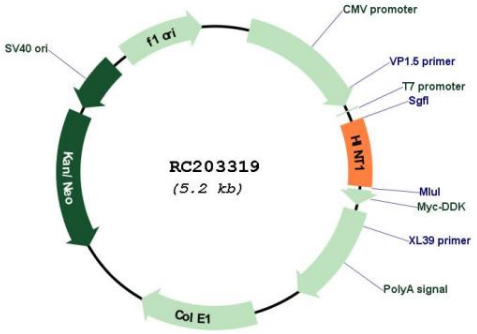
Cloning Scheme:



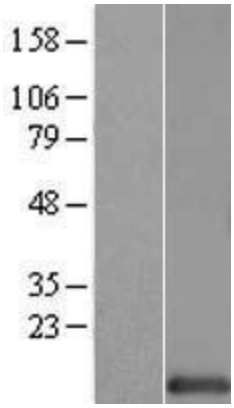
ACCN:	NM_005340
ORF Size:	378 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005340.7
RefSeq Size:	689 bp
RefSeq ORF:	381 bp

Locus ID:	3094
UniProt ID:	P49773
Cytogenetics:	5q23.3
Domains:	HIT
MW:	13.8 kDa
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]

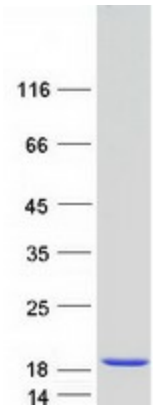
Product images:



Circular map for RC203319



Western blot validation of overexpression lysate (Cat# [LY417372]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203319 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HINT1 protein (Cat# [TP303319]). The protein was produced from HEK293T cells transfected with HINT1 cDNA clone (Cat# RC203319) using MegaTran 2.0 (Cat# [TT210002]).