OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG203319

HINT1 (NM_005340) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HINT1 (NM_005340) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HINT1
Synonyms:	HINT; NMAN; PKCI-1; PRKCNH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG203319 representing NM_005340
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGATGAGATTGCCAAGGCTCAGGTCGCTCGGCCTGGTGGCGACACGATCTTTGGGAAGATCATCC
GCAAGGAAATACCAGCCAAAATCATTTTTGAGGATGACCGGTGCCTTGCTTTCCATGACATTTCCCCTCA
AGCACCAACACATTTTCTGGTGATACCCAAGAAACATATATCCCAGATTTCTGTGGCAGAAGATGATGAT
GAAAGTCTTCTTGGACACTTAATGATTGTTGGCAAGAAATGTGCTGCTGATCTGGGCCTGAATAAGGGTT
ATCGAATGGTGGTGAATGAAGGTTCAGATGGTGGACAGTCTGTCTATCACGTTCATCTCCATGTTCTTGG
AGGTCGGCAAATGCATTGGCCTCCTGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG203319 representing NM_005340
Red=Cloning site Green=Tags(s)

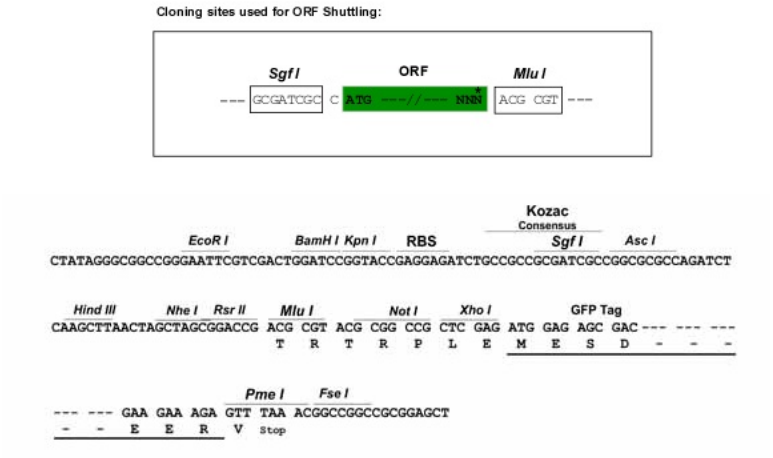
MADEIAKAQVARPGGDTIFGKIIRKEIPAKIIFEDDRCLAFHDISPQAPTHFLVIPKKHISQISVAEDDD
ESLLGHLMIVGKKCAADLGLNKGYRMVVNEGSDGGQSVYHVHLHVLGGRQMHWPPG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

View online »

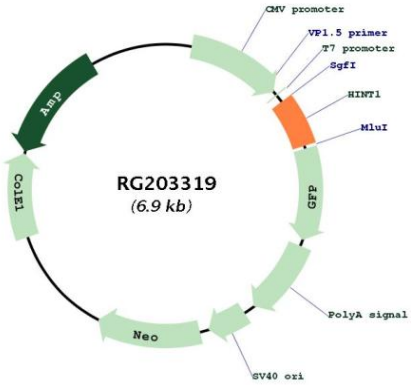
Cloning Scheme:



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:	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]

Product images:



Circular map for RG203319