

Product datasheet for **RR202388**

Nanp (NM_001009409) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nanp (NM_001009409) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nanp
Synonyms: Hdhd4; RGD1306009
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR202388 representing NM_001009409
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCTGAGTCGGGTCCGCGCGGTCTTCTTTGACCTGGACAACACTCATCGACACGGCCGGGGCGA
GCAGGAGAGGCATGTTGGAGGTAATAAAGCTCTTACAATCAAAAACCACTACAAAGAAGAGGCTGAAGT
CATCTGCGATAAAGTTCAAGTAACTGAGCAAGGAGTGCTTTCATCCCTATAGTACATGCATTACAGAT
GTGAGGACTTCGCACTGGGAAGAAGCAATCCAGGAAACCAAGGTGGTGCCGACAATAGGAAATTGGCTG
AGGAATGTTATTTCTGTGGAATCTACACGCTTACAGCACATGACCCTAGAAGAAGATGTCAAAGCCAT
GCTCACTGAACTTCGTAAGAGGTCCGCCTACTCTTGTAAACAAACGGTGACAGACAGACACAGAGGGAA
AAGATCGAGGCTTGTGCCTGCCAGTCTTACTTTGATGCCATTGTTGTAGGAGGAGAACAGAAGGAAGAGA
AACCAGCACCTCCATATTTTATCACTGCTGTGATCTTCTTGGAGTGCAGCCAGGGGACTGTGTGATGGT
TGGTGACACACTAGAAACCGATATACAAGGAGGCTGAATGCAGGACTGAAAGCCACGGTCTGGATAAAC
AAGAGTGGAGGAGTGCCACTGACATCGTCCCCATGCCTCACTATATGGTTTCTCTGTGTTAGAATTAC
CTGCTCTTTGCAAAGCATAGATTGCAAAGTCAGCATGTCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR202388 representing NM_001009409
Red=Cloning site Green=Tags(s)

MGLSRVRAVFFDLNNTLIDTAGASRRGMLEVIKLLQSKYHYKEEAIEVICDKVQVKLSKECFHPYSTCITD
 VRTSHWEEAIQETKGGADNRKLAEECYFLWKSTRLOHMTLEEDVKAMLTELKKEVRLLLL TNGDRQTQRE
 KIEACACQSYFDAIVVGGGEQKEEKPAISIFYHCCDLLGVQPGDCVMVGD TLETDIQGGLNAGLKATVWIN
 KSGGVPLTSSPMPHYMVSSVLEL PALLQSIDCKVSMVS

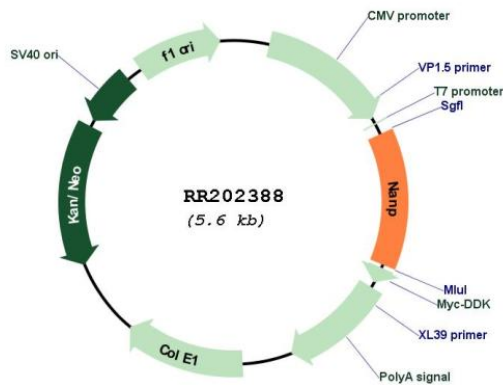
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001009409
ORF Size: 744 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:	<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_001009409.1 , NP_001009409.1
RefSeq Size:	1335 bp
RefSeq ORF:	747 bp
Locus ID:	311530
UniProt ID:	Q5M969
Cytogenetics:	3q41
MW:	27.7 kDa
Gene Summary:	The protein encoded by this gene is an enzyme involved in the synthesis of N-acetylneuraminate (Neu5Ac), the main form of sialic acid. [provided by RefSeq, Jul 2008]