

Product datasheet for **RR213688**

Dhx30 (NM_001013249) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dhx30 (NM_001013249) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Dhx30
Synonyms: MGC109411
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR213688 representing NM_001013249
Red=Cloning site Blue=ORF Green=Tags(s)

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 GCCGCGATCGCC

ATGTTCCACCTGGACTCATTAGAAAAGATCGGACCCAGCACAGGCAGCGTCAATGCAAGCTTCCCCAC
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ATGTGGGCTTCCAGGTACGCTTGGAAAGCAAGCCTCCAGCCCAGGTGGGGCGCTGCTCTTCTGCACTGT
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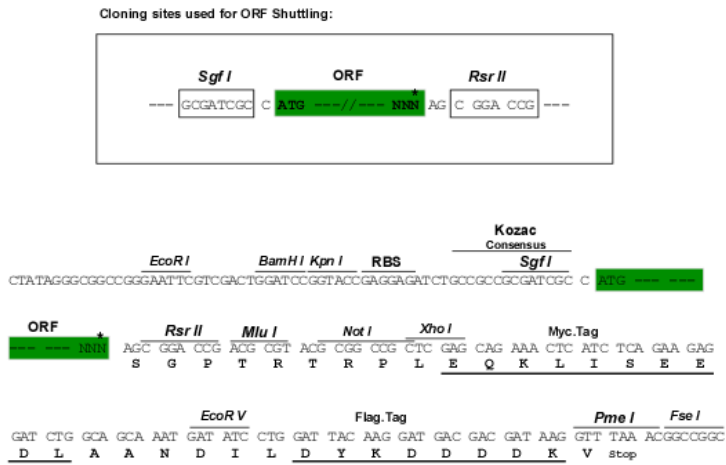
Protein Sequence: >RR213688 representing NM_001013249
 Red=Cloning site Green=Tags(s)

MFTLDSFRKDRTQHRQRQCKLPPPRLLPPMCVNPAPGGTISRASRDLLKEFPQPKNLLNSVIGRALGISHA
 KDKL VYHTNGPKKKVTLHIKWPKSVEVEGYGSKKIDAERQAAAAACQLFKGWGLL GPRNELFDAAYR
 VLADRFKSPADSWWRPEPTMPPTSWRQLNPENIRPAGTGGLSRSLGEEEEEEEELEEGTIDVTEFLSM
 TQDSDHNPRLDRSGGSFEMTDDDSAIRALTQFPLPKNLLAKVIQIATSSSTAKNLMQFHTVGTCKLATL
 TLLWPCMTFVAKGRRKAEAKAAALACKKLSLGLVDRNNEPLTHAMYNLASLRELGETQRRPCTIQV
 PEPILRKIEAFLSHYPVDSSWISPELRLQSDDILPLGKDSGPLSDPITGKPYMPLSEAEVRLSQSLEL
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 ILPVHSNIPMDQKAIQQPPLGVRKIVLATNIAETSITVNDIVHVVD SGLHKEERYDLTKVSCLETVW
 VSRANVIQRRGRAGRCQSGFAYHLFPRSRLKEMVFPQPEILRTPLENLVLQAKIHMPEKTAVEFLSKAV
 DSPNIKAVDEAVILLQEIGVLDQREYLTTLGQRLAHISTDPRLAKAIVLAAIFRCLHPLL VVVSCLTRDP
 FSSSLQNAEVDKVKALLSHDSGSDHLAFVRAVAGWEEVLRWQDRTSRENYLEENLLYAPSLRFIHGLIK
 QFSENIYEAFLVGKPSDCTLPSAQCNEYSEEEELVKGVL MAGLYPNLIQVRQGVTRQGKFKPNSVTYRT
 KSGNILLHKSTINREATRLRSRWLYTFMAVKSNGSVFVRDSSQVHPLAVLLLTDGDVHIRDDGRRATISL
 SDSDLLRLEGDSRTVRLRLRELRRALGRMVERSLRSELAALPLSVQQEHGQLLALLAELLRGPCGSFDVRK
 TADD

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

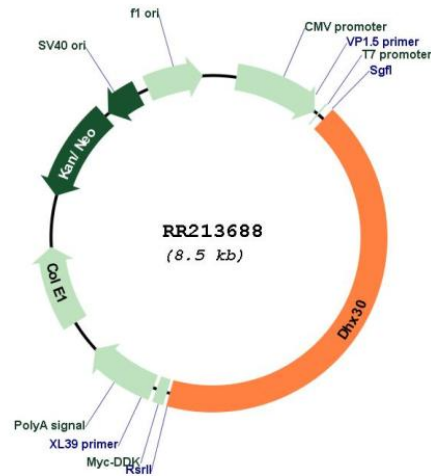
Restriction Sites: SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001013249

ORF Size: 3582 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.

RefSeq: [NM_001013249.1](#), [NP_001013267.1](#)

RefSeq Size: 3853 bp

RefSeq ORF: 3585 bp

Locus ID: 367172

UniProt ID: [Q5BJS0](#)

Cytogenetics: 8q32

MW: 134 kDa

Gene Summary: RNA-dependent helicase (By similarity). Plays an important role in the assembly of the mitochondrial large ribosomal subunit (By similarity). Associates with mitochondrial DNA (By similarity). Required for optimal function of the zinc-finger antiviral protein ZC3HAV1 (PubMed:21204022). Involved in nervous system development and differentiation through its involvement in the up-regulation of a number of genes which are required for neurogenesis, including GSC, NCAM1, neurogenin, and NEUROD (By similarity).[UniProtKB/Swiss-Prot Function]