

Product datasheet for **RC201053**

DDX49 (NM_019070) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX49 (NM_019070) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DDX49
Synonyms:	Dbp8; R27090_2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC201053 representing NM_019070
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGGCTTCGCGGAGCTCGGGCTGTATCGTGGCTCGTGAACAATGTCGGCAGCTGGGTTGAAGC
 AGCCACGCCCGTGCAGCTCGGCTGCATCCCCGCATCCTGGAGGTCGAGACTGCTGGGCTGTGCTAA
 GACAGGCAGTGGGAAGACAGCAGCGTTTGTCTTCCCATCTTGCAGAAGCTGTCTGAGGATCCCTATGGC
 ATCTTCTGCCTCGTCTGACACCCACGAGGAGCTGGCTACCAGATCGCAGAGCAGTTCGGGCTCTGG
 GGAAGCCTCTAGGGCTGAAAGACTGCATCATCGTCGGTGGCATGGACATGGTGGCCAGGCGCTGGAGCT
 CTCTCGGAAACCACAGTGGTATCGCCACGCCGGGGCGCTGGCAGATCACCTGCGCAGCTCCAACACT
 TTTAGTATAAAGAAGATCCGCTTCTGGTATGGATGAGGCAGACCGGCTGCTGGAACAGGGCTGCACTG
 ACTTCACCGTGGACCTGGAGGCCATCCTGGCGGCTGTGCCGCCCGCAGGCAGACTGCTGTTACGGC
 CACGCTGACCGACACACTCCGGGAGCTGCAGGGTCTGGCCACCAACCAGCCCTTCTCTGGGAAGCACAG
 GCCCGGTGAGCACCGTGGAGCAGCTGGACCAGCGCTACCTGCTGGTGCCTGAGAAGGTCAAGGACGCCCT
 ACCTGGTCCACCTGATCCAGCGTTCAGGATGAGCACGAGGACTGGTCCATTATCATCTTACCACACAC
 GTGCAAGACCTGCCAGATTCTGTGCATGATGCTGCGCAAATTCAGCTTCCCACCGTGGCTCTGCACTCC
 ATGATGAAGCAGAAAGAACGCTTTCGCCCCCTAGCCAAGTTCAAGTCCAGCATCTACCGGATCCTGATCG
 CAACAGACGTGGCCTCCCGGGCCCTGGACATCCCTACGGTACAGGTGGTCAACACACAACACCCCGG
 GCTCCCAAGATCTACATCCACCGAGTCGGCCGGACGGCCCGTGCAGGGCGCAGGGTCAAGCCATCAGC
 CTGGTGACACAGTACGACATCCACCTGGTGCACGCCATCGAGGAGCAGATCAAGAAGAAGCTGGAGGAGT
 TCTCCGTGGAAGAGGCCGAGGTGCTACAGATCCTCACACAGGTCAACGTGGTGGCAGAGAGTGTGAGAT
 CAAACTGGAGGCCGCCACTTTGACGAAAAGAAGGAGATCAACAACGGAAGCAGCTGATCCTGGAGGGG
 AAGGACCTGACCTGGAGCCAAGCGCAAGGCTGAGCTGGCCAAGATCAAGCAGAAGAACCAGCGCTTCA
 AGGAGAAGGTGGAGGAGACGCTGAAGCGACAGAAGGCTGGCAGGGCTGGCCACAAGGGCGCTCACCCAG
 GACACCGTCTGGTCCCCTCAGGCCAGTCCCCTCCCAGGGCTGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201053 representing NM_019070
 Red=Cloning site Green=Tags(s)

MAGFAELGLSSWLVEQCRQLGLKQPTPVQLGCIPAILLEGRDCLGCAKTGSGKTAAFVLPILQKLSSEDPYG
 IFCLVLTPTRELAYQIAEQFRVLGKPLGLKDCIIVGGMDMVAQALELSRKPVVVIATPGRLADHLRSSNT
 FSIKKIRFLVMDEADRLLEQGTDFTVDLAAILAAVPARRQTLFSLATLTDLRELQGLATNQPFWEAQ
 APVSTVEQLDQRYLLVPEKVKDAYLVHLIQRFDHEDWSIIIFNTCKTCQILCMMLRKFSPPTVALHS
 MMKQKERFAALAKFKSSIYRIL IATDVASRGLDIPTVQVVINHTNPGLPKIYIHRVGR TARAGRQQAIT
 LVTQYDIHLVHAIEEQIKKKLEEFVVEEAQVQLITQVNVVRRCEIKLEAAHFDEKKEINKRKQLILEG
 KDPDLEAKRKAELAKIKQKNRRFKEKVEETLKRQKAGRAGHKGRPPRTPSGSHSGVPVPSQGLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8101_c06.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_019070

ORF Size: 1449 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_019070.5](#)
RefSeq Size: 1836 bp

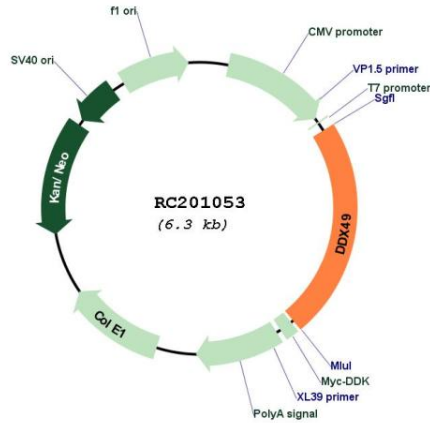
RefSeq ORF: 1452 bp

Locus ID: 54555

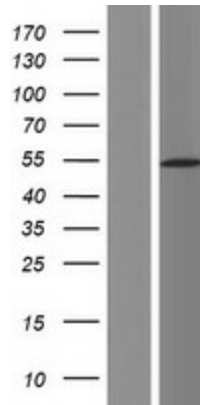
UniProt ID: [Q9Y6V7](#)
Cytogenetics: 19p13.11

Domains: DEAD
 MW: 54.2 kDa

Product images:



Circular map for RC201053



Western blot validation of overexpression lysate (Cat# [LY412782]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201053 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).