

Product datasheet for **RG200371**

DDX5 (NM_004396) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX5 (NM_004396) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDX5
Synonyms:	G17P1; HLR1; HUMP68; p68
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200371 representing NM_004396
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGGGTTATTCGAGTGACCGAGACCGCGCCGGGACCGAGGGTTTGGTGCACCTCGATTTGGAGGAA
 GTAGGGCAGGGCCCTTATCTGGAAGAAGTTTGGAAACCCTGGGAGAAAATTAGTTAAAAAGAAGTGAA
 TCTTGATGAGCTGCCTAAATTTGAGAAGAATTTTATCAAGAGCACCTGATTTGGCTAGGCGCACAGCA
 CAAGAGGTGGAACATACAGAAGAAGCAAGAAATTACAGTTAGAGGTCACAACCTGCCCGAAGCCAGTTC
 TAAATTTTATGAAGCAATTTCCCTGCAATGTCATGGATGTTATTGCAAGACAGAATTTCACTGAACC
 CACTGCTATTCAAGCTCAGGGATGGCCAGTTGCTCTAAGTGGATTGGATATGGTTGGAGTGGCACAGACT
 GGATCTGGGAAAACATTGCTTATTTGCTTCTGCCATTGTCCACATCAATCATCAGCCATTCTAGAGA
 GAGGCGATGGGCCTATTTGTTTGGTGTGGCACCACCTCGGAACTGGCCCAACAGGTGCAGCAAGTAGC
 TGCTGAATATTGTAGAGCATGTCGCTTGAAGTCTACTTGTATCTACGGTGGTGTCTTAAGGACCACAA
 ATACGTGATTTGGAGAGAGGTGTGAAAATCTGTATTGCAACACCTGGAAGACTGATTGACTTTTTAGAGT
 GTGAAAAAACCAATCTGAGAAGAACAACCTACCTTGCCTTGATGAAGCAGATAGAATGCTTGATATGGG
 CTTTGAACCCCAAATAAGGAAGATTGTGGATCAAATAAGACCTGATAGGCAAACTCTAATGTGGAGTGGC
 ACTTGGCCAAAAGAAGTAAGACAGCTTGTGAAGATTTCTGAAAGACTATATTCATATAAACATTTGGTG
 CACTTGAAGTGAAGTCAAACCAACATTTCTCAGATTGTGGATGTGTGTGATGACGTAGAAAAGGATGA
 AAACTTATTCGTCTAATGGAAGAGATCATGAGTGAGAAGGAGAATAAAACCATTTGTTTTGTGAAACC
 AAAAGAAGATGTGATGAGCTTACCAGAAAAATGAGGAGAGATGGGTGGCCTGCCATGGTATCCATGGTG
 ACAAGATCAACAAGAGCGTGACTGGTTCTAAATGAATTCAAACATGGAAAAGCTCTATTCTGATTGC
 TACAGATGTGGCCTCCAGAGGGCTAGATGTGGAAGATGTGAAATTTGTCATCAATTATGACTACCCTAAC
 TCCTCAGAGGATTATTCATCGAATTGGAAGAACTGCTCGCAGTACAAAAACAGGCACAGCATACTT
 TCTTTACACCTAATAACATAAAGCAAGTGAAGCAGCTTATCTCTGTGCTTCGTGAAGCTAATCAAGCAAT
 TAATCCCAAGTTGCTTCAAGTTGGTGAAGACAGAGGTTTCAAGTGTTCAGGGGTAGAGGAGGCATGAAG
 GATGACCGTCGGGACAGATACTCTGCGGGCAAAAGGGTGGATTAATACCTTTAGAGACAGGGAAAATT
 ATGACAGAGGTTACTCTAGCCTGCTTAAAAGAGATTTGGGGCAAAAACCTCAGAATGGTGTTTACAGTGC
 TGCAAATTACACCAATGGGAGCTTTGGAAGTAATTTGTGTCTGCTGGTATACAGACCAGTTTTAGGACT
 GGTAATCCAACAGGGACTTACCAGAATGGTTATGATAGCACTCAGCAATACGGAAGTAATGTTCCAATA
 TGCACAATGGTATGAACCAACAGGCATATGCATATCCTGCTACTGCAGCTGCACCTATGATTGGTTATCC
 AATGCCAACAGGATATCCCAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200371 representing NM_004396
 Red=Cloning site Green=Tags(s)

MSGYSSDRDRGRDRGFGAPRFGGSRAGPLSGKKFGNPGEKLVKKKWNLDELPKFEKNFYQEHPDLARRTA
 QEVEYTYRSKEITVRGHNCPPVLFNFEANFPANVMDVIARQNFTEPTAIQAQGWVVALSGLDMVGAQT
 GSGKTLSYLLPAIVHINHQPFLERGDGPICLVLAPTRELAQQVQVAAEYCRACRLKSTCIYGGAPKGPQ
 IRDLERGVETIATPGRLLDFLECGKTNLRRTTYLVLEADRMLDMGFEPQIRKIVDQIRPDRQTLMWSA
 TWPKEVRQLAEDFLKDYIHINIGALELSANHNILQIVDVCHDVEKDEKLIRLMEEIMSEKENKTIVFVET
 KRRCEDELTRKMRDGPAMGIHGDKSQQRDVLNEFKHGKAPILATDVASRGLDVEDVKFVINVDYDYPN
 SSEDYIHRIGRTARSTKTGTAYTFFTPNNIKQVSDLISVLRANQAINPKLLQLVEDRGSRSRGRGGMK
 DRRRDRYSAGKRGFNTRDRENYDRGYSSLLKRDFAKTQNGVYSAANYTNGSFGSNFVSAIGIQTFRFT
 GNPTGTQYQNGYDSTQQYGSNPNMHNMQQAYAYPATAAAPMIGYPMPTGYSQ

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_004396

ORF Size: 1842 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_004396.5](#)

RefSeq Size: 2325 bp

RefSeq ORF: 1845 bp

Locus ID: 1655

UniProt ID: [P17844](#)

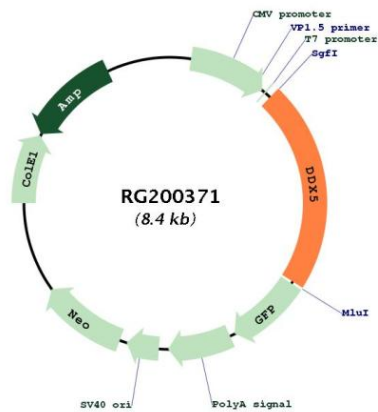
Cytogenetics: 17q23.3

Domains: DEAD, helicase_C

Protein Pathways: Spliceosome

Gene Summary: This gene encodes a member of the DEAD box family of RNA helicases that are involved in a variety of cellular processes as a result of its role as an adaptor molecule, promoting interactions with a large number of other factors. This protein is involved in pathways that include the alteration of RNA structures, plays a role as a coregulator of transcription, a regulator of splicing, and in the processing of small noncoding RNAs. Members of this family contain nine conserved motifs, including the conserved Asp-Glu-Ala-Asp (DEAD) motif, important to ATP binding and hydrolysis as well as RNA binding and unwinding activities. Dysregulation of this gene may play a role in cancer development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2017]

Product images:



Circular map for RG200371