

Product datasheet for **RG208769**

DDX1 (NM_004939) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX1 (NM_004939) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDX1
Synonyms:	DBP-RB; UKVH5d
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208769 representing NM_004939
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCCTTCTCCGAGATGGGTGTAATGCCTGAGATTGCACAAGCTGTGGAAGAGATGGATTGGCTCC
 TCCCAACTGATATCCAGGCTGAATCTATCCATTGATCTTAGGAGGAGGTGATGACTTATGGCTGCAGA
 AACAGGAAGTGGCAAACTGGTGTCTTTAGTATCCAGTTATCCAGATAGTTTATGAAACTCTGAAAGAC
 CAACAGGAAGGCAAAAAAGGAAAAACAACAATTAATACTGGTGTTCAGTGCTGAACAAATGGCAGATGA
 ACCCATATGACAGAGGATCTGCTTTTGAATTGGGTGAGATGGTCTTTGTTGTCAAAGCAGAGAAGTAAA
 GGAATGGCATGGGTGTAGAGCTACTAAAGGATTAATGAAAGGGAAACACTACTATGAAGTATCCTGTCAT
 GACCAAGGTTATGCAGGGTCGGTGGTCTACCATGCAGGCTCTTTGGACCTAGGTACTGACAAGTTTG
 GATTTGGCTTTGGTGAACAGGAAAGAAATCCCATACAAACAATTTGATAATTATGGAGAGGAATTCAC
 TATGCATGATACCATTGGATGTTACCTGGATATAGATAAGGGACATGTCAAGTTCTCCAAAAATGGAAAA
 GATCTTGGTCTGGCATTGAAATACCACCACATATGAAAAACCAAGCCCTCTTCTGCCTGTGTTTGA
 AGAATGCTGAACTGAAATTAACCTCGGTGAAGAGGAATTTAAGTTTCCACCAAAAAGATGGCTTGTTC
 TCTTCCAAAGGCACCGGATGGTTACATTGTCAAATCACAGCACTCAGGTAATGCACAGGTGACACAAACA
 AAGTTTCTCCCAATGCTCCGAAAGCTCTCATTGTTGAACCTTCCCGGGAGTTAGCTGAACAACTTTGA
 ACAACATCAAGCAGTTTAAGAAATACATTGATAATCCTAAATTAAGGGAGCTTCTGATAATTGGAGGTGT
 TGCAGCCCGGGATCAGCTCTCTGTTTTGAAAAATGGAGTAGATATAGTTGTAGGTACTCCGGGAAGACTA
 GATGACTTGGTGTCAACTGGAAAGCTGAACCTTCTCAAGTTAGATTCTGGTCTGGATGAAGCTGATG
 GGCTTCTTCTCAAGGTTATTCTGATTTTATAAATAGGATGCACAATCAGATTCCCTCAGGTGAGCTGATG
 TGGAAAAAGACTTCAGGTGATTGTTGCTCTGCCACTTTGCATTCTTTCGATGTAAGAAACTGTCCGAG
 AAGATAATGCATTTTCTACATGGGTTGACTTAAAAGGAGAAGACTCTGTTCCAGATACTGTACACCATG
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 TGATGTACATGCAAAAGATAACACAAGACCTGGTGCTAATAGTCCAGAGATGTGGTCTGAAGCTATTA
 ATCCTGAAAGGGAGTATGCTGTCCGGCAATCAAGGAACATAAGATGGATCAAGCAATTATCTTCTGTA
 GAACCAAAATTGACTGTGATAACTTGGAGCAGTACTTTATACAACAAGGAGGAGGACCTGATAAAAAAGG
 ACACCAGTTCTCATGTGTTTGTCTTCATGGTGACAGAAAGCCTCATGAGAGAAAGCAAACTTGGAAAGA
 TTTAAGAAAGGAGATGTAAGATTCTTGATTTGCACAGATGTAGCTGCTAGAGGAATTGATATCCACGGTG
 TTCCTTATGTTATAAATGTCACCTGCCCAGTAAAAGCAAACTACGTACATCGAATTGGCAGAGTAGG
 AAGAGCTGAAAGGATGGGTCTGGCAATTTCCCTGGTGGCAACAGAAAAAGAAAGGTTTGGTACCATGTA
 TGTAGCAGCCGTGAAAAAGGTTTATAACACAAGACTCAAGGAAGATGGAGGCTGTACCATATGGTACA
 ACGAGATGCAGTTACTATCTGAGATAGAAGAACCTGAACTGTACCATTTCTCAGGTTGAGCCGGATAT
 AAAGGTACCAGTGGATGAATTTGATGGGAAAGTTACCTACGGTCAGAAAAGGCTGCTGGTGGTGGAAAGC
 TATAAAGGCCATGTGGATATTTGGCACCTACTGTTCAAGAGTTGGCTGCCCTTAAAAGGAGGCGCAGAC
 CATCTTCTGCATCTTGGCTACCTTCTAACCAAGCTGTTCAGAACCTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG208769 representing NM_004939
 Red=Cloning site Green=Tags(s)

MAAFSEMGMPEIAQAVEEMDWLLPTDIAESIPLILGGGDVLMMAETGSGKTGAFSIPVIQIVYETLKD
 QQEGKKGKTTIKTGASVLNKWQMNPHYDRGSAFAIGSDGLCCQSREVKWEHGCRA TKGLMKGKHYYEVSCH
 DQGLCRVGWSTMQASLDLGTDFGFGGGTGKKSHNKQFDNYGEEFTMHDITIGCYLDIDKGHVKFSKNGK
 DLGLAFEIPPHMKNQALFPACVLKNAELKFNFGEEEFKFPKDG FVALSKAPDGYIVKSQHSNGAQTQT
 KFLPNAPKALIVEPSRELAEQTLNNIKQFKKYIDNPKLRELLIIGGVAARDQLSVLENGVDIVVGT
 PGRLLDDL VSTGKLNLSQVRFLVLDEADGLLSQGYSDFINRMHNQIPQVTS DGKRLQVIVCSATLH
 SFDVKKLSEKIMHFPTWVDLKGEDSVPTVHHVVVVPNPKTDRLWERLKGSHIRTD DVHAKDNTRP
 GANSPMWEAIIKILKGEYAVRAIKEHKMDQAIIFCRTKIDCNLEQYFIQQGGGPKKGGHGF
 SCVCLHGD RKPHERKQNLERFKKGDVRF LICTDVAARGIDIHGVPIVNTLPDEKQNYVHRIGR
 VGRAERMGLAISLVATEKEKVYHV CSSRGGKGCYNTRLKEDGGCTI WYNEMQLLSEIEEHLNCT
 ISQVEPDIKVPVDEFD GKVTYQGKRAAGGGS YKGHVDILAPTVQELAALEKEAQT SFLHL
 GYLPNQLFRTF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004939

ORF Size: 2220 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_004939.3](#)

RefSeq Size: 2706 bp

RefSeq ORF: 2223 bp

Locus ID: 1653

UniProt ID: [Q92499](#)

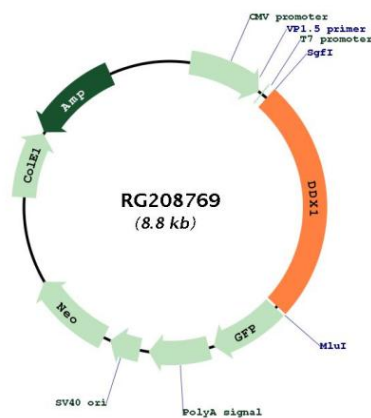
Cytogenetics: 2p24.3

Domains: DEAD, helicase_C, SPRY

Protein Families: Druggable Genome

Gene Summary: DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein of unknown function. It shows high transcription levels in 2 retinoblastoma cell lines and in tissues of neuroectodermal origin. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG208769