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Product datasheet for SC110925

HDJ2 (DNAJA1) (NM_001539) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDJ2 (DNAJA1) (NM_001539) Human Untagged Clone
Tag:	Tag Free
Symbol:	HDJ2
Synonyms:	DJ-2; DjA1; hDJ-2; HDJ2; HSDJ; HSJ-2; HSJ2; HSPF4; NEDD7
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC110925 sequence for NM_001539 edited (data generated by NextGen Sequencing)

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ATGGTGAAAGAAACAACTTACTACGATGTTTTGGGGGTCAAACCCAATGCTACTCAGGAA
GAATTGAAAAAGGCTTATAGGAAACTGGCCTTGAAGTACCATCCTGATAAGAACCCAAAT
GAAGGAGAGAAGTTTAAACAGATTTCTCAAGCTTACGAAGTTCTCTCTGATGCAAAGAAA
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TATGAGGATGATGAACATCATCCCAGAGGTGGTGTTCAGTGTCAGACCTCTTAA

Clone variation with respect to NM_001539.2
90 t=>c
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001539 unedited
TTTGTATACGACTCACTATAGGGCGGCNCGCGAATTCGCACGAGNAACGCTCGGTGAGAG
GCGGAGGAGCGGTAACTACCCCGGCTGCGCACAGCTCGGCGCTCCTTCCCGCTCCCTCAC
ACACCGGCCTCAGCCCGCACCGGCAGTAGAAGATGGTGAAAGAAACAACTTACTACGATG
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CCTTGAAGTACCATCCTGATAAGAACCCAAATGAAGGAGAGAAGTTTAAACAGATTTCTC
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AGCTCTCAGTAACCCTAGAAGACTTATATAATGGTGCAACAAGACAACTGGCTCTGCAAA
AGAATGTGATTTGTGACCAATGTGAAGGTAGAGGAGGTAAGAAAGGAGCAGTAGAGTGCT
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AAGATAGATGTAAAAGCCTGCACCGGAAGGAAGATAGCTTCGAGAGGAACAAAATCTCAC
CAGTTCATTATTGACAAAGGCCATGAAAAATGGCCAGCAGGAAACCATCCCTTGGGGAGG
GAGACCAAGAACCAGGACTGGGAGCCAGCGAATTTATATTTGTGTTANATCAGAAAGAAC
ATGGCTGTTTTTACTCGACGAGAAGATAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001539 unedited
GGGACGCGCNNGGGCCCACCCCCCCCCTTTTNNNNNAANNTTTACTTAGAACCCGGCCGC
ATACNANGATCGGATTTTTTTTTTTTTTTTATATATGCGCGTATACTTCATTTAACTCTT
TATAACACTCCTCTAGTGTATTAAAACACAAACACAAGCACGTGGTGAGCATATTATGAG
AACAGAGCTTTACTCTTTCACTACTGCGCATTAAACGCCCCCAGTGAGTGTGATTCACTG
GGCCCTTAAAAGGGGTGACACTGAGCACCACCTCTGGGAGGAGGTGCATAATCCTCATAT
GCTCTTCCATTGTGGAGGGGCCGCCTTTCCTGAGTTGGATCAAAGACCACCACATCTACT
TGGGCCATCTCATAAGACTCTTTCACTTTCTTTCTCTCGGGGAGGAGAGTTTCCACCACA
GACACTGTATCAGGAGAGAGAAAGCCCTTCTCAGGAGAGAGTACCTTAAATACGATGAGA
ATGCGACCCTCTTCATATGGGCTACAATAAATAGGGATGCCTTCATTTAGAACACACTCG
AGATCTCCATGCGCGACACTCTGACCTGTATGAGAGGTGATGACAATGGGGCTGGTGTCA
AAAGAGTATATTGGGTTCTGGAAACCACACAGAGCTTTAACGAGCTGTGTGTGCATACAC
ACGAGAAGGTGTTCTCCTCTTCGAGAAAAAACACAATGGGGCTTCTGAGCTATCACACTG
AGAATATCGCCTGTGTCCACACCTGTGGCTTGGGCTCCTTCACCACGGAATGTGATATTT
CTGGGCACATTTCATGCGCTCTGTGAATATGAAACTCCTATAAAATCTTTCTCTCTAAAT
ATATTCCTTTTCGCTGCAGCATTTTACACATATATTTATGAGAGAGCCGCTCCCCATGTG
CCCTGGACTCCATGTGCACAGACTGAATATGCTGAAACATCT

Restriction Sites: NotI-NotI

ACCN: NM_001539

Insert Size: 1400 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001539.2, NP_001530.1
RefSeq Size:	1538 bp
RefSeq ORF:	1194 bp
Locus ID:	3301
UniProt ID:	P31689
Cytogenetics:	9p21.1
Domains:	DnaJ_CXXCXGXG, DnaJ, DnaJ_C
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a member of the DnaJ family of proteins, which act as heat shock protein 70 cochaperones. Heat shock proteins facilitate protein folding, trafficking, prevention of aggregation, and proteolytic degradation. Members of this family are characterized by a highly conserved N-terminal J domain, a glycine/phenylalanine-rich region, four CxxCxGxG zinc finger repeats, and a C-terminal substrate-binding domain. The J domain mediates the interaction with heat shock protein 70 to recruit substrates and regulate ATP hydrolysis activity. In humans, this gene has been implicated in positive regulation of virus replication through co-option by the influenza A virus. Several pseudogenes of this gene are found on other chromosomes. [provided by RefSeq, Sep 2015] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).