

Product datasheet for SC302568

DNAJB14 (NM 001031723) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: DNAJB14 (NM_001031723) Human Untagged Clone

Tag: Tag Free Symbol: DNAJB14

Synonyms: EGNR9427; PRO34683

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >SC302568 representing NM_001031723.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGAGGGGAACAGGGATGAGGCTGAGAAATGTGTCGAGATCGCCCGGGAGGCCCTGAACGCCGGCAAC CGCGAGAAGGCCCAGCGCTTCCTGCAGAAGGCCGAGAAGCTCTACCCACTGCCCTCGGCCCGCGCACTA TTGGAAATAATTATGAAAAATGGAAGCACGGCTGGAAATAGCCCTCATTGCCGAAAACCATCAGGTAGT GGCGATCAAAGCAAGCCTAATTGCACAAAGGACAGCACATCTGGTAGTGGTGAAGGTGGAAAAGGCTAT ACCAAAGACCAAGTAGATGGAGTTCTCAGCATAAACAAATGTAAAAATTACTATGAAGTACTTGGAGTT AAAAACCATGCACCTGGAGCAACAGATGCTTTTAAAAAGATTGGAAATGCTTATGCTGTTTTAAGTAAT CCAGAAAAGCGAAAACAGTATGACCTCACGGGCAATGAAGAACAAGCATGTAACCACCAAAACAATGGC AGATTTAATTTCCATAGAGGTTGTGAAGCTGATATAACTCCAGAAGACTTGTTTAATATATTTTTTGGG GGTGGATTTCCTTCAGGTAGTGTACATTCTTTTTCAAATGGAAGAGCTGGTTATAGCCAACAACATCAG CATCGACATAGTGGACATGAAAGAGAAGAGGAAAGAGGAGATGGAGGTTTTTCTGTGTTTATCCAGCTG ATGCCCATAATTGTATTGATCCTCGTGTCATTATTAAGCCAGTTGATGGTCTCTAATCCTCCTTATTCC TTATATCCCAGATCTGGAACTGGGCAAACTATTAAAATGCAAACAGAAAACTTGGGTGTTGTTTATTAT GTCAACAAGGACTTCAAAAATGAATATAAAGGAATGTTATTACAAAAGGTAGAAAAGAGTGTGGAGGAA GCAAAAGTATACCGTGATGATCGACTCCGAAGGAAGGCAGATGCCTTGAGCATGGACAACTGTAAAGAA TTAGAGCGGCTTACCAGTCTTTATAAAGGAGGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT

TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: Sgfl-Mlul



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DNAJB14 (NM_001031723) Human Untagged Clone - SC302568

ACCN: NM_001031723

Insert Size: 1140 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning

into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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: <u>NM 001031723.3</u>

 RefSeq Size:
 6088 bp

 RefSeq ORF:
 1140 bp

 Locus ID:
 79982

 UniProt ID:
 <u>Q8TBM8</u>

Cytogenetics: 4q23

MW: 42.5 kDa



Gene Summary:

Acts as a co-chaperone with HSPA8/Hsc70; required to promote protein folding and trafficking, prevent aggregation of client proteins, and promote unfolded proteins to endoplasmic reticulum-associated degradation (ERAD) pathway (PubMed:24732912). Acts by determining HSPA8/Hsc70's ATPase and polypeptide-binding activities (PubMed:24732912). Can also act independently of HSPA8/Hsc70: together with DNAJB12, acts as a chaperone that promotes maturation of potassium channels KCND2 and KCNH2 by stabilizing nascent channel subunits and assembling them into tetramers (PubMed:27916661). While stabilization of nascent channel proteins is dependent on HSPA8/Hsc70, the process of oligomerization of channel subunits is independent of HSPA8/Hsc70 (PubMed:27916661). When overexpressed, forms membranous structures together with DNAJB12 and HSPA8/Hsc70 within the nucleus; the role of these structures, named DJANGOs, is still unclear (PubMed:24732912).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.