

## Product datasheet for **RG218858**

### HSPA14 (NM\_016299) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HSPA14 (NM_016299) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSPA14
Synonyms:	HSP70-4; HSP70L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG218858 representing NM\_016299  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGCCATCGGAGTTCACCTGGGCTGCACCTCAGCCTGTGTGGCCGTCTATAAGGATGGCCGGGCTG  
 GTGTGGTTGCAAATGATCCGGTGACCGAGTTACTCCAGCTGTTGTTGCTTACTCAGAAAATGAAGAGAT  
 TGTGGATTGGCAGCAAAACAAAGTAGAATAAGAAATATTTCAAATACAGTAATGAAAGTAAAGCAGATC  
 CTGGGCAGAAAGCTCCAGTGATCCACAAGCTCAGAAATACATCGCGGAAAGTAAATGTTTAGTCATTGAAA  
 AAAATGGGAAATTACGATATGAAATAGATACTGGAGAAGAAAACAAAATTTGTTAACCCAGAAGATGTTGC  
 CAGACTGATATTTAGTAAAATGAAAGAAACGGCACATTCTGTATTGGGCTCAGATGCAAATGATGTAGTT  
 ATTACTGTCCCGTTTGTATTTGGAGAAAAGCAAAAAATGCTCTTGGAGAAGCAGCTAGAGCTGCTGGAT  
 TTAATGTTTTGCGATTAATTCACGAACCGTCTGCAGCTCTTCTTGCTTATGGAATTGGACAAGACTCCCC  
 TACTGGAAAAAGCAATATTTTGGTGTAAAGCTTGGAGGAACATCCTTATCTCTCAGCGTCATGGAAGTT  
 AACAGTGGAAATATACGGGTTCTTTCAACAAACTGATGATAACATCCGTGGTGACATTTACAGAAA  
 CCTTAGCACAGTATCTAGCTTCTGAGTTCCAAAGATCCTTCAAACATGATGTGAGAGGAAATGCGCGAGC  
 CATGATGAAATTAACGAACAGTCTGAAGTAGCGAAACATTTCTTGTCAACCTTGGGAGTGCCAACTGT  
 TTTCTTGACTCATTATATGAAGGTCAAGATTTTGATTGCAATGTGTCCAGAGCAAGATTTGAACTCTTT  
 GTTCTCCACTTTTTAATAAGTGTATAGAAGCAATCAGAGGACTCTTAGATCAAAATGGATTTACAGCAGA  
 TGATATCAACAAGTTGTCCTTTGTGGAGGGTCTTCTCGAATCCCAAAGCTACAGCAACTGATTAAGAT  
 CTTTTCCAGCTGTTGAGCTTCTCAATTCTATCCCTCTGATGAAGTATCCCTATTGGTGCAGCTATAG  
 AAGCAGGAATTTCTATTGGGAAAGAAAACCTGTTGGTGGAGACTCTCTTATGATAGAGTGTTCAGCCAG  
 AGATATTTTAGTTAAGGGTGTGGACGAATCAGGAGCCAGTAGATTACAGTGCTGTTCCATCAGGGACT  
 CCTTTGCCAGCTCGAAGCAACACACATTGCAAGCCCCTGGAAGCATATCTTCAGTGTGCCTTGAAGTCT  
 ATGAGTCTGATGGGAAGAACTCTGCCAAAGAGGAAACCAAGTTTGCACAGGTTGTAAGTCCAGGATTTAGA  
 TAAAAAGAAAATGGATTACGTGATATATTAGCTGTTCTTACTATGAAAAGGGATGGATCTTTACATGTG  
 ACATGCACAGATCAAGAAACTGGAAAATGTGAAGCAATCTCTATTGAGATAGCATCT

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG218858 representing NM\_016299  
 Red=Cloning site Green=Tags(s)

MAAIGVHLGCTSACVAVYKDRAGVVANDAGDRVTPAVVAYSENEIIVGLAAKQSRIRNISNTVMKVVKQI  
 LGRSSSDPQAQKYIAESKCLVIEKNGKLRYEIDTGEETKFNPEDEVARLIFSKMKETAHSVLSGSDANDVV  
 ITVPFDGGEKQKNALGEAARAAGFNVLRRLIHEPSAALLAYGIGQDSPTGKSNILVFKLGGTSLSLSVMEV  
 NSGIYRVLSTNTDDNIGGAHFTEQLAQLASEFQRSFKHDVIRGNARAMMKLNSAEVAKHSLSTLGSANC  
 FLDSLIEGQDFDCNYSRARFELLCSPLFNKIEAIRGLLDQNGFTADDINKVVLGGSSRIPKLQQLIKD  
 LFPAVELLNSIPPDEVIPIGAAIEAGILIGKENLLVEDSLMIECSARDILVKGVDESGASRFTVLFPSGT  
 PLPARRQHTLQAPGSISSVCLLEYSDGKNSAKEETKFAQVVLQDLKKENGLRDILAVLTMKRDGSLHV  
 TCTDQETGKCEAISIEIAS

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_016299

**ORF Size:** 1527 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\\_016299.4](#)

**RefSeq Size:** 1740 bp

**RefSeq ORF:** 1530 bp

**Locus ID:** 51182

**UniProt ID:** [Q0VDF9](#)

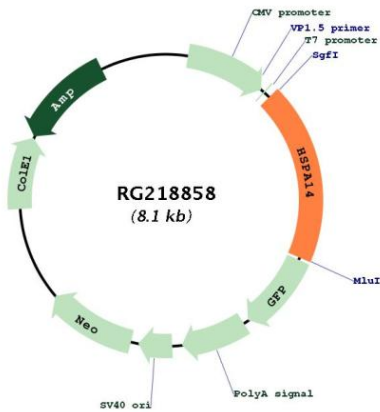
**Cytogenetics:** 10p13

**Domains:** HSP70

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**Gene Summary:** Component of the ribosome-associated complex (RAC), a complex involved in folding or maintaining nascent polypeptides in a folding-competent state. In the RAC complex, binds to the nascent polypeptide chain, while DNAJC2 stimulates its ATPase activity.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG218858