

Product datasheet for **RC236010**

HSPA14 (NM_001278205) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HSPA14 (NM_001278205) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HSPA14
Synonyms: HSP70-4; HSP70L1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236010 representing NM_001278205
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGCCATCGGAGTTCACCTGGGCTGCACCTCAGCCTGTGTGGCCGCTATAAGGATGGCCGGGCTG
GTGTGGTTGCAAATGATCCGGTGACCGAGTTACTCCAGCTGTTGTTGCTTACTCAGAAAATGAAGAGAT
TGTTGGATTGGCAGAAAACAAAGTAGAATAAGAAATATTTCAAATACAGTAATGAAAGTAAAGCAGATC
CTGGGCAGAAGGGTGCTCTCAAGGGACCCAGCTACAGCAGCTCCACACGCCTTTTCAGAGGTGCAGTT
GCTCCCTGTCAGAGCAGCCCATGGCCAGACTGGGTGTGTCCGGGGAGCCAGCCCTGCACCAGCACCA
ACCGCAGCACTCTGGGTAGCTCCACACCGCAGACTCCAGTCTCCTCTTCGAGAGCTGGTTTTGTTTC
TGGTGGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236010 representing NM_001278205
Red=Cloning site Green=Tags(s)

MAAIGVHLGCTSACVAVYKDGRAGVVANDAGDRVTPAVVAYSENEEIVGLAAKQSRIRNISNTVMKVQKI
LRRVL SRDPLQLPQPFQRCSCSLSEQPHGQTGCVRGAQPLHQHPQHSHWGLHTADSSLLFESWFCF
WWG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

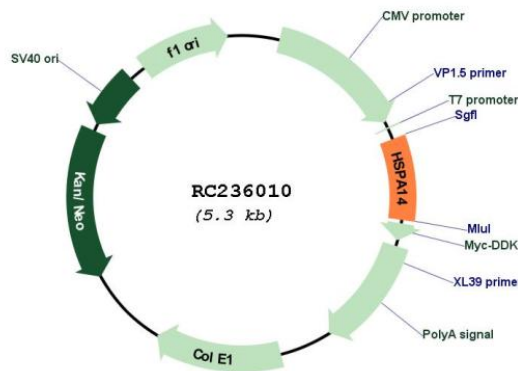


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001278205

ORF Size: 429 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:	<ol style="list-style-type: none">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_001278205.1, NP_001265134.1</u>
RefSeq Size:	4110 bp
RefSeq ORF:	432 bp
Locus ID:	51182
Cytogenetics:	10p13
Protein Families:	Druggable Genome, Stem cell - Pluripotency
MW:	16.1 kDa
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]