

Product datasheet for **SC206748**

HSPA2 (NM_021979) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones
Product Name: HSPA2 (NM_021979) Human 3' UTR Clone
Vector: pMirTarget (PS100062)
Symbol: HSPA2
Synonyms: HSP70-2; HSP70-3
ACCN: NM_021979
Insert Size: 498 bp
Insert Sequence: >SC206748 3'UTR clone of NM_021979
 The sequence shown below is from the reference sequence of NM_021979. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GGGGACCCACCATCGAAGAAGTGGACTAAGCTTGCACTCAAGTCAGCGTAAACCTCTTTCCTTTCTC
TCTCTCTTTTTTTTTGTTTCTTTGAAATGTCTTGCCAAGTACGAGATCTATTGTTGGAAG
TCTTTGGTATATGCAAAATGAAAGGAGAGGTGCAACAACCTTAGTTTAATTATAAAAGTTCCAAAGTTGT
TTTTTAAAAACATTATTGAGGTTTCTCTTTAATGCATTTTGCCTGTTTCTGACTTGAGCATTTTTGA
TTAGTTCGTGCATGGAGATTTGTTGAGATGAGAAACCTTAAGTTTGCACACCTGTTCTGTAGAAGCTT
GGAAACAGTAAAAATATAGGAGCTTAAATTGTTTATTTTATGTACTACTTTAAACTAAACTGAACA
TTGCAGTAATGTTAAGGACAGGTATACTTTTGCAAACAATGCATAAATGCAAATGTAAGTAAAGCT
GAAATTGATCTCAA
ACGCGTAAGCGGCCGCGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
```

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_021979.4](#)



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Summary:

Molecular chaperone implicated in a wide variety of cellular processes, including protection of the proteome from stress, folding and transport of newly synthesized polypeptides, activation of proteolysis of misfolded proteins and the formation and dissociation of protein complexes. Plays a pivotal role in the protein quality control system, ensuring the correct folding of proteins, the re-folding of misfolded proteins and controlling the targeting of proteins for subsequent degradation. This is achieved through cycles of ATP binding, ATP hydrolysis and ADP release, mediated by co-chaperones. The affinity for polypeptides is regulated by its nucleotide bound state. In the ATP-bound form, it has a low affinity for substrate proteins. However, upon hydrolysis of the ATP to ADP, it undergoes a conformational change that increases its affinity for substrate proteins. It goes through repeated cycles of ATP hydrolysis and nucleotide exchange, which permits cycles of substrate binding and release (PubMed:26865365). Plays a role in spermatogenesis. In association with SHCBP1L may participate in the maintenance of spindle integrity during meiosis in male germ cells (By similarity).[UniProtKB/Swiss-Prot Function]

Locus ID:

3306

MW:

19.1