

Product datasheet for **RG202891**

Cpn10 (HSPE1) (NM_002157) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cpn10 (HSPE1) (NM_002157) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Cpn10
Synonyms: CPN10; EPF; GROES; HSP10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202891 representing NM_002157
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGACAAGCGTTTAGAAAGTTTCTTCCACTCTTTGACCGAGTATTGGTTGAAAGGAGTGCTGCTG
AAACTGTAAACAAAGGAGGCATTATGCTTCCAGAAAAATCTCAAGGAAAAGTATTGCAAGCAACAGTAGT
CGCTGTTGGATCGGGTTCTAAAGGAAAGGGTGGAGAGATTCAACCAGTTAGCGTGAAAGTTGGAGATAAA
GTTCTTCTCCAGAATATGGAGGCACAAAGTAGTTCTAGATGACAAGGATTATTCCTATTTAGAGATG
GTGACATTCTTGAAAGTACGTAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202891 representing NM_002157
Red=Cloning site Green=Tags(s)
MAGQAFRKFLPLFDRVLVERSAEVTKGGIMLPEKSQGVQLQATVVAVGSGSKGKGGIEIQPVSVKVGDK
VLLPEYGGTKVVLDDKDYFLFRGDILGKYVD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_002157

ORF Size: 306 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_002157.3](#)

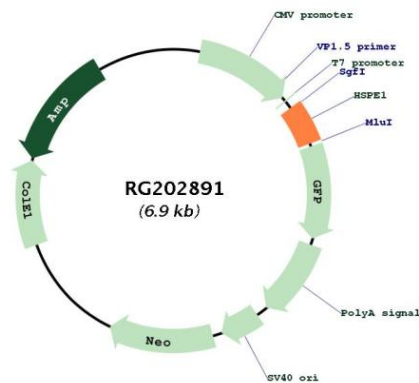
RefSeq Size: 538 bp

RefSeq ORF: 309 bp

Locus ID: 3336
UniProt ID: [P61604](#)
Cytogenetics: 2q33.1
Domains: cpn10
Protein Families: Druggable Genome, Stem cell - Pluripotency

Gene Summary: This gene encodes a major heat shock protein which functions as a chaperonin. Its structure consists of a heptameric ring which binds to another heat shock protein in order to form a symmetric, functional heterodimer which enhances protein folding in an ATP-dependent manner. This gene and its co-chaperonin, HSPD1, are arranged in a head-to-head orientation on chromosome 2. Naturally occurring read-through transcription occurs between this locus and the neighboring locus MOBKL3.[provided by RefSeq, Feb 2011]

Product images:



Circular map for RG202891