

Product datasheet for **RC230858**

CHPF (NM_001195731) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | CHPF (NM_001195731) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | CHPF |
| Synonyms: | CHSY2; CSS2 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RC230858 representing NM_001195731
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGTGGTGACGCTAGGCGAGGAGCGACCCATTGGACACCTGCACCTGGCGCTGCGCCACCTGCTGG
 AGCAGCACGGCGACGACTTTGACTGTTCTTCTGGTGCCTGACACCACCTACACCGAGGCGCACGGCCT
 GGCACGCCTAACTGGCCACCTCAGCCTGGCCTCCGCCGCCACCTGTACCTGGGCGGCCCCAGGACTTC
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 TGCAACAACCTGCGCCCCACCTGGAAGGCTGCCGCAACGACATCGTCAGTGCAGGCCCTGACGAGTGGCT
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 ACTTCACGGAGCAGCACGCTTTCTCTGCGCCGATGGCTCACCCCGCTGCCACTGCGTGGGGCTGACCG
 GGCTGATGTGGCCGATGTTCTGGGGACAGCTCTAGAGGAGCTGAACCGCCGCTACCACCCGGCCTTGCGG
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 GGAGCTGCTGGAGAGCCTGGATGTGTACGAGCTGTTCTCCACTTCTCCAGTCTGCATGTGCTGCGGGCG
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 ACCGCTGCTCCAGAGCGTCTTGAGGGCTCGGCTCCCGAACCCAGCTGGCCATGCTACTCTTTGAACA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

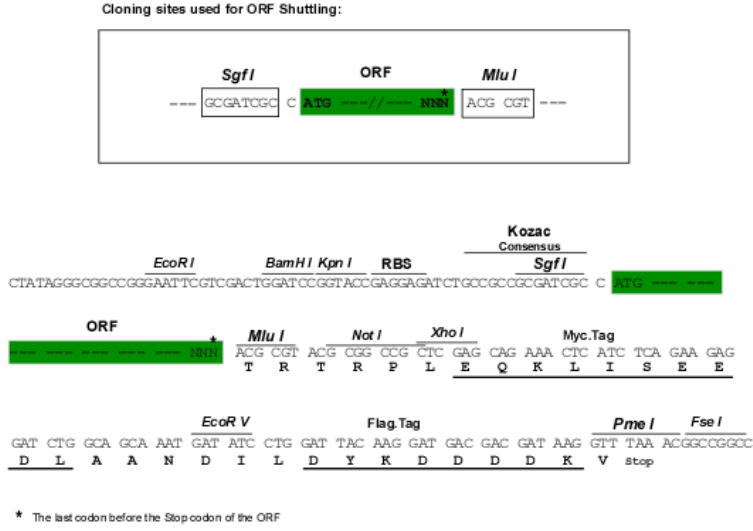
>RC230858 representing NM_001195731
 Red=Cloning site Green=Tags(s)

MAVVTLGEERPIGHLHLALRHLLLEQHGDDFDWFFLVPDTTYEAHGLARLTGHLSLASAAHLYLGRPQDF
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 LELSPGEPVQEGDPHFRSALTAHPVRDPVHMYQLHKAFARAELERTYQEIQELQWEIQNTSHLAVDGDRA
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 PPQGPPELGRDTGRFDRQAASEACFYNSDYVAARGRLAAASEQEEELLESLDVYELFLHFSSLHVLRA
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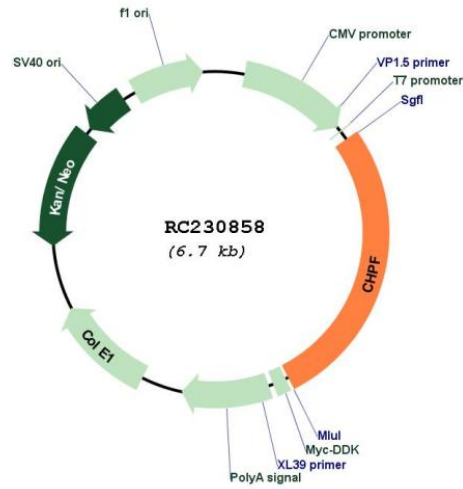
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001195731

ORF Size: 1839 bp

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| 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: | NM_001195731.1 , NP_001182660.1 |
| RefSeq Size: | 2657 bp |
| RefSeq ORF: | 1842 bp |
| Locus ID: | 79586 |
| UniProt ID: | Q8IZ52 |
| Cytogenetics: | 2q35 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Chondroitin sulfate biosynthesis, Metabolic pathways |
| MW: | 68.4 kDa |
| Gene Summary: | Has both beta-1,3-glucuronic acid and beta-1,4-N-acetylgalactosamine transferase activity. Transfers glucuronic acid (GlcUA) from UDP-GlcUA and N-acetylgalactosamine (GalNAc) from UDP-GalNAc to the non-reducing end of the elongating chondroitin polymer. Isoform 2 may facilitate PRKN transport into the mitochondria. In collaboration with PRKN, isoform 2 may enhance cell viability and protect cells from oxidative stress.[UniProtKB/Swiss-Prot Function] |