

Product datasheet for **RG230858**

CHPF (NM_001195731) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHPF (NM_001195731) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHPF
Synonyms:	CHSY2; CSS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG230858 representing NM_001195731
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGGGCATCGCTGCTGTGCTGCTGCGGCCCGCAGGGCCCGTGGCCGTGGGCATCTCCCTGGGCT
 TCACCCTGAGCCTGCTCAGCGTCACCTGGGTGGAGGAGCCGTGCGGCCAGGCCGCCCAACCTGGAGA
 CTCTGAGCTGCCCGCGCGGCAACACCAACGCGGCGCGCCGCCCAACTCGGTGCAGCCCGAGCGGAG
 CGCGAGAAGCCCGGGGCCGCGAAGGCGCGGGGAGAATTGGAGCCGCGCTTTGCCCTACCACCCTG
 CACAGCCCGCCAGGCCGCAAAAAGGCCGTGAGGCCGCTACATCAGCACGGAGCTGGGCATCAGGCA
 GAGGCTGCTGGTGGCGGTGCTGACCTCTCAGACCACGCTGCCACGCTGGGCGTGGCCGTGAACCGCACG
 CTGGGGCACCGGCTGGAGCGTGTGGTGTCTGACGGGCGCACGGGGCCCGGGGCCACCTGGCATGG
 CAGTGGTGACGCTGGGCGAGGAGCGACCCATTGGACACCTGCACCTGGCGCTGCGCCACCTGCTGGAGCA
 GCACGGCGACGACTTTGACTGGTTCTTCTGGTGCCTGACACCACCTACACCGAGGCGCACGGCCCTGGCA
 CGCCTAACTGGCCACCTCAGCCTGGCCTCCGCCGCCACCTGTACCTGGGCCGGGCCAGGACTTCACTG
 GCGGAGAGCCACCCCGGCCGCTACTGCCACGGAGGCTTTGGGGTGTGCTGTGCGCATGCTGTGCA
 ACAACTGCGCCCCACCTGGAAGGCTGCCGAACGACATCGTCAGTGCGGCCCTGACGAGTGGTGGGT
 CGCTGCATTCTCGATGCCACCGGGTGGGCTGCACTGGTGACCACGAGGGGGTGCATAAGCCATCTGG
 AGCTGAGCCCTGGGGAGCCAGTGACAGGAGGGGGACCCATTTCCGAAGTGCCCTGACAGCCACCCCTGT
 GCGTGACCCTGTGCATGTACCAGTGCAAAAGCTTTCGCCGAGCTGAACTGGAACGCACGTACCAG
 GAGATCCAGGAGTTACAGTGGGAGATCCAGAATACCAGCCATCTGGCCGTTGATGGGGACCGGGCAGCTG
 CTTGGCCCGTGGTATTCCAGCACCATCCCGCCGGCCTCCCGCTTTGAGGTGCTGCGCTGGGACTT
 CACGGAGCAGCACGCTTCTCCTGCGCCGATGGCTCACCCCGCTGCCACTGCGTGGGGCTGACCGGGCT
 GATGTGGCCGATGTTCTGGGGACAGCTCTAGAGGAGCTGAACCGCCGCTACCACCCGGCCTTGCGCTCC
 AGAAGCAGCAGCTGGTGAATGGTACCAGCCTTTGATCCGGCCCGGGTATGGAATACACGCTGGACTT
 GCAGCTGGAGGCACTGACCCCCAGGGAGGCGCCGGCCCTCACTCGCCGAGTGACAGCTGCTCCGGCCG
 CTGAGCCCGTGGAGATCTTGCCTGTGCCCTATGTCACTGAGGCCTCACGTCTCACTGTGCTGCTGCCTC
 TAGCTGCGGCTGAGCGTGACCTGGCCCCTGGCTTCTTGGAGGCCTTGGCCACTGCAGCACTGGAGCCTGG
 TGATGCTGCGGCAGCCCTGACCCTGCTGCTACTGTATGAGCCGCGCCAGGCCAGCGCTGGCCCATGCA
 GATGTCTTCGCACCTGTCAAGGCCACGTGGCAGAGCTGGAGCGCGTTCGCCGTTGCCGGGTGCCAT
 GGCTCAGTGTGCAGACAGCCGCACCCTCACCCTGCGCCTCATGGATCTACTCTCAAGAAGCACCCGCT
 GGACACACTGTTCTGCTGGCCGGGCCAGACACGGTGTACACGCTGACTTCTGAACCGCTGCCGCATG
 CATGCCATCTCCGGCTGGCAGGCCTTTTCCCATGCATTTCAAAGCCTTCCACCCAGCTGTGGCCCCAC
 CACAAGGGCCTGGGCCCCAGAGCTGGGCCGTGACACTGGCCGCTTTGATCGCCAGGCAGCCAGCGAGGC
 CTGCTTCTACAACCTCCGACTACGTGGCAGCCCGTGGGCGCCTGGCGGCAGCCTCAGAACAAGAAGAGGAG
 CTGCTGGAGAGCCTGGATGTGTACGAGCTGTTCTCCACTTCTCCAGTCTGCATGTGCTGCGGGCGGTGG
 AGCCGGCGCTGCTGCAGCGCTACCGGGCCAGAGCTGCAGCGGAGGCTCAGTGAGGACCTGTACCACCG
 CTGCCTCCAGAGCGTGTGAGGGCCTCGGCTCCCGAACCCAGCTGGCCATGCTACTCTTTGAACAGGAG
 CAGGGCAACAGCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG230858 representing NM_001195731
 Red=Cloning site Green=Tags(s)

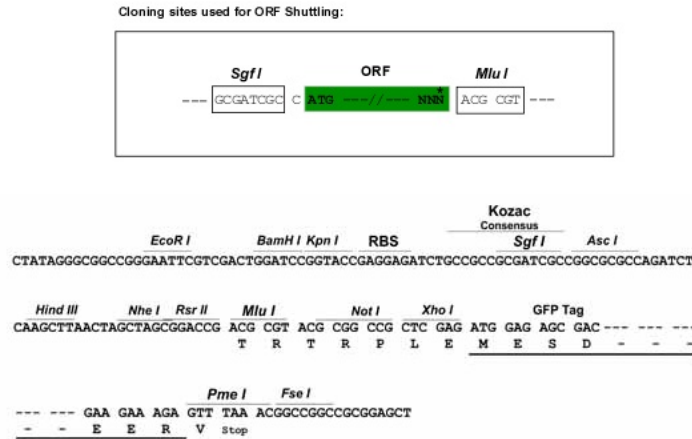
```

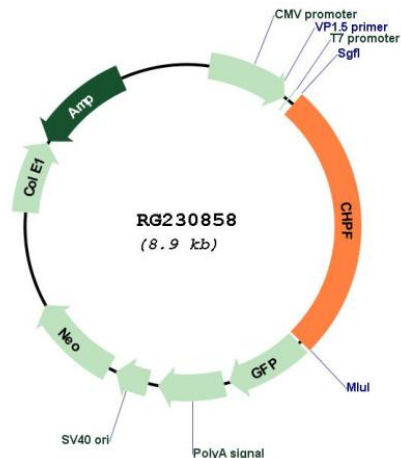
MRASLLLSVLRPAGPVAVGISLGF TLLSVTWVEEPCGPGPPQPGDSELPPRGNTNAARRPNSVQPGAE
REKPGAGEGAGENWEPRVLPYHPAQPGQAAKAVRTRYISTELGIRQLLVAVLTSQTTLPTLGVAVNRT
LGHRLERVVFLTGARGRRAPPGMAVVTLGEERPIGHLHLALRHLLLEQHGD DFDWFFLVPDTTYTEAHGLA
RLTGHL SLASAAHL YLGRPQDFIGGEPTPGRYCHGGFVLLSRMLLQQLRPHLEGCRNDIVSARPDEWLG
RCILDATGVGCTGDHEGVHSHLELSPGEPVQEGDPHFRSALTAHPVRDPVHMYQLHKAFARAELERTYQ
EIQELQWEIQNTSHLAVDGDRAAAWPVGIPAPSRPASRFEVLRWDYFTEQHAFSCADGSPRCPLRGADRA
DVADVLGTALEELNRRYHPALRLKQQLVNGYRRFDPARGMEYTLDLQLEALTPQGRRPLTRRVQLLRP
LSRVEILPVVYVEASRLTVLLPLAAAERDLAPGFLEAFATAALEPGDAAAAL TLLLYEPRQAQRVAHA
DVFAPVKAHVAELERRFPGARVPWLSVQTAAPSPLRLMDLLSKKHPLDTLFLLAGPDTVLTPDFLNRCRM
HAISGWQAFPMHFQAFHPAVAPPQGPPELGRDTGRFDRQAASEACFYNSDYVAARGRLAAASEQEEE
LLESLDVYELFLHFSSLHVLRAVEPALLQRYRAQTCSARLSEDLYHRCLQSVLEGLGSRTQLAMLLFEQE
QGNST
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001195731

ORF Size: 1839 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_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
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]