

Product datasheet for **RG203197**

CHPF (NM_024536) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHPF (NM_024536) 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:**

>RG203197 representing NM_024536
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGGCATCGCTGCTGTGCTGCTGCGGCCCGCAGGGCCCGTGGCCGTGGGCATCTCCCTGGGCT
 TCACCCTGAGCCTGCTCAGCGTCACCTGGGTGGAGGAGCCGTGCGGCCAGGCCGCCCAACCTGGAGA
 CTCTGAGCTGCCGCCGCGGCAACACCAACGCGGCGCGCCGCCCAACTCGGTGCAGCCGGAGCGGAG
 CGCGAGAAGCCCGGGGCCGCGAAGGCGCCGGGAGAATTGGAGCCGCGCTTTGCCCTACCACCCTG
 CACAGCCCGCCAGGCCGCAAAAAGGCCGTACAGACCCTGACATCAGCACGGAGCTGGGCATCAGGCA
 GAGGCTGCTGGTGGCGGTGCTGACCTCTCAGACCAGCTGCCACGCTGGGCGTGGCCGTGAACCGCACG
 CTGGGGCACCGGCTGGAGCGTGTGGTGTCTGACGGGCGCACGGGGCCCGGGGCCACCTGGCATGG
 CAGTGGTACGCTGGGCGAGGAGCGACCCATTGGACACCTGCACCTGGCGCTGCGCCACCTGCTGGAGCA
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 GAGATCCAGGAGTTACAGTGGGAGATCCAGAATACCAGCCATCTGGCCGTTGATGGGGACCGGGCAGCTG
 CTTGGCCCGTGGTATTCCAGCACCATCCCGCCGGCCTCCCGCTTTGAGGTGCTGCGCTGGGACTACT
 CACGGAGCAGCACGCTTCTCCTGCGCCGATGGCTCACCCCGCTGCCACTGCGTGGGGCTGACCGGGCT
 GATGTGGCCGATGTTCTGGGGACAGCTCTAGAGGAGCTGAACCGCCGCTACCACCCGGCCTTGCGCTCC
 AGAAGCAGCAGCTGGTGAATGGCTACCGACGCTTTGATCCGGCCCGGGTATGGAATACACGCTGGACTT
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 AGCCGGCGCTGCTGCAGCGCTACCGGGCCAGAGCTGCAGCGGAGGCTCAGTGAGGACCTGTACCACCG
 CTGCCTCCAGAGCGTGTGGAGGCCTCGGCTCCCGAACCCAGCTGGCCATGCTACTCTTTGAACAGGAG
 CAGGGCAACAGCACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG203197 representing NM_024536
Red=Cloning site Green=Tags(s)

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MRASLLLSVLRPAGPVAVGISLGF TLLSVTWVEEPCGPGPPQPGDSELPPRGNTNAARRPNSVQPGAE
REKPGAGEGAGENWEPRVLPYHPAQPGQAAKAVRTRYISTELGIRQLLVAVLTSQTTLPTLGVAVNRT
LGHRLERVVFLTGARRRAPPGMVVTLGEERPIGHLHLALRHLLLEQHGD DFDWFFLVPDTTYTEAHGLA
RLTGHLSLASAAHLYLGRPQDFIGGEPTPGRYCHGGFGVLLSRMLLQQLRPHLEGCRNDIVSARPDEWL
RCILDATGVGCTGDHEGVHSHLELSPGEPVQEGDPHFRSALTAHPVVRDPVHMYQLHKAFARAELERTYQ
EIQELQWEIQNTSHLAVDGDRAAAWPVGIPAPSRPASRFEVLRWDYFTEQHAFSCADGSPRCPLRGADRA
DVADVLTALEELNRRYHPALRLKQQLVNGYRRFDPARGMEYTLDLQLEALTPQGGRRPLTRRVQLLRP
LSRVEILPVVYVEASRLTVLLPLAAAERDLAPGFLEAFATAALEPGDAAAALLLLLYEPRQAQRVAHA
DVFAPVKAHVAELERRFPGARVPWLSVQTAAPSPLRLMDLLSKKHPLDTLFLLAGPDTVLTPDFLNRCRM
HAISGWQAFFPMHFQAFHPAVAPPQGPPELGRDTGRFDRQAASEACFYNSDYVAARGRLAAASEQEEE
LLESLDVYELFLHFSSLHVLRAVEPALLQRYRAQTCSARLSEDLYHRCLQSVLEGLGSRTQLAMLLFEQE
QGNST
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024536

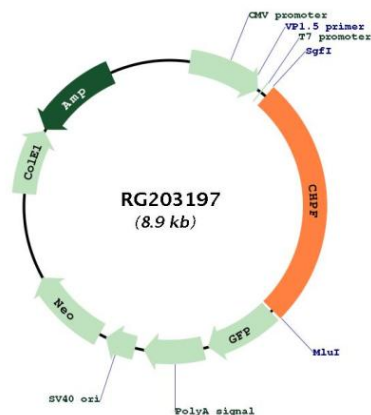
ORF Size: 2325 bp

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:	NM_024536.4 , NP_078812.2
RefSeq Size:	2956 bp
RefSeq ORF:	2328 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]

Product images:



Circular map for RG203197