

Product datasheet for **RC203197**

CHPF (NM_024536) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHPF (NM_024536) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHPF
Synonyms:	CHSY2; CSS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC203197 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGGCATCGCTGCTGTGCTGCTGCGGCCCGCAGGGCCCGTGGCCGTGGGCATCTCCCTGGGCT
 TCACCCTGAGCCTGCTCAGCGTCACCTGGGTGGAGGAGCCGTGCGGCCAGGCCGCCCAACCTGGAGA
 CTCTGAGCTGCCCGCGCGCAACACCAACGCGCGCGCCGCCCAACTCGGTGCAGCCGGAGCGGAG
 CGCGAGAAGCCCGGGCCGGCGAAGGCGCGGGGAGAATTGGAGCCGCGCTTTGCCCTACCACCCTG
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 GAGGCTGCTGGTGGCGGTGCTGACCTCTCAGACCAGCTGCCACGCTGGGCGTGGCCGTGAACCGCACG
 CTGGGGCACCGGCTGGAGCGTGTGGTGTCTGACGGGCGCACGGGGCCCGGGGCCACCTGGCATGG
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 CGCCTAACTGGCCACCTAGTCTGGCCTCCGCCGCCACCTGTACCTGGGCCGGGCCAGGACTTCACTG
 GCGGAGAGCCACCCCGGCCGCTACTGCCACGGAGGCTTTGGGGTGTGCTGTGCGCATGCTGTGCA
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 GAGATCCAGGAGTTACAGTGGGAGATCCAGAATACCAGCCATCTGGCCGTTGATGGGGACCGGGCAGCTG
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 CACGGAGCAGCACGCTTCTCCTGCGCCGATGGCTCACCCCGCTGCCACTGCGTGGGGCTGACCGGGCT
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 CACAAGGGCCTGGGCCCCAGAGCTGGGCCGTGACACTGGCCGCTTTGATCGCCAGGCAGCCAGCGAGGC
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 CTGCCTCCAGAGCGTGTGGAGGCCTCGGCTCCCGAACCCAGCTGGCCATGCTACTCTTTGAACAGGAG
 CAGGGCAACAGCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203197 protein sequence
Red=Cloning site Green=Tags(s)

MRASLLLSVLRPAGPVAVGISLGFTLSLLSVTWVEEPCGPGPPQPGDSELPARGNTNAARRPNSVQPGAE
REKPGAGEGAGENWEPRVLPYHPAQPGQAAKAVRTRYISTELGIRQLLVAVLTSQTTLPTLGVAVNRT
LGHRLEVVFLTGARGRRAPPGMAVVTLGEERPIGHLHLALRHLLLEQHGDFFDWFFLVPDTTYEAHGLA
RLTGHLSLASAAHLYLGRPQDFIGGEPTPGRYCHGGFGVLLSRMLLQQLRPHLEGCRNDIVSARPDEWLG
RCILDATGVGCTGDHEGVHSHLELSPGEPVQEGDPHFRSALTAHPVRDPVHMYQLHKAFARAELERTYQ
EIQELQWEIQNTSHLAVDGDRAAAMPVGIAPSRPASRFEVLRWDYFTEQHAFSCADGSPRCPLRGADRA
DVADVLGTALEELNRRYHPALRLKQQLVNGYRRFDPARGMEYTLDLQLEALTPQGGRRPLTRRVQLLRP
LSRVEILPVPYVTEASRLTVLLPLAAAERDLAPGFLEAFATAALEPGDAAAALTLLEYEPRQAQRVAHA
DVFAPVKAHVAELEERRFPGARVPWLSVQTAAPSPLRLMDLLSKKHPLDTLFLLAGPDTVLTPDFLNRCRM
HAISGWQAFFPMHFQAFHPAVAPPQGGPELGRDTGRFDRQAASEACFYNSDYVAARGRLAAASEQEEE
LLESLDVYELFLHFSSLHVLRAVEPALLQRYRAQTCSARLSEDLYHRCLQSVLEGLGSRTQLAMLLFEQE
QGNST

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6202_g08.zip

Restriction Sites: Sgfl-Mlul

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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024536.4](#), [NP_078812.2](#)

RefSeq Size: 3013 bp

RefSeq ORF: 2328 bp

Locus ID: 79586

UniProt ID: [Q8IZ52](#)

Cytogenetics: 2q35

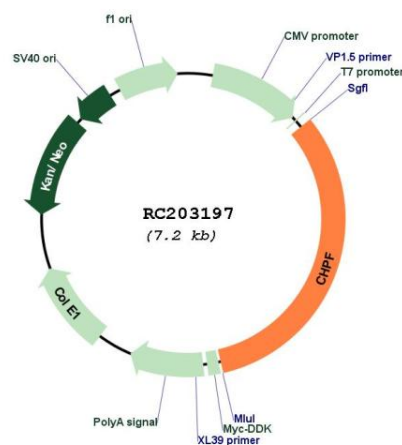
Protein Families: Druggable Genome

Protein Pathways: Chondroitin sulfate biosynthesis, Metabolic pathways

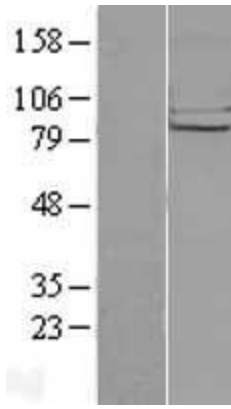
MW: 85.5 kDa

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]

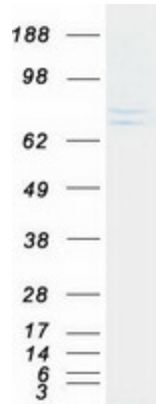
Product images:



Circular map for RC203197



Western blot validation of overexpression lysate (Cat# [LY403000]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203197 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CHPF protein (Cat# [TP303197]). The protein was produced from HEK293T cells transfected with CHPF cDNA clone (Cat# RC203197) using MegaTran 2.0 (Cat# [TT210002]).