

## Product datasheet for **SC127898**

### CHPF (NM\_024536) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHPF (NM_024536) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHPF
Synonyms:	CHSY2; CSS2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC127898 sequence for NM\_024536 edited (data generated by NextGen Sequencing)

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ATGCGGGCATCGTGCTGCTGTCGGTGCTGCGGCCCGCAGGGCCCGTGGCCGTGGGCATC
TCCCTGGGCTTACCCTGAGCCTGCTCAGCGTCACCTGGGTGGAGGAGCCGTGCGGCCCA
GGCCCCCCCCAACCTGGAGACTCTGAGCTGCCGCCGCGGCAACACCAACGCGGCGCGC
CGGCCAACTCGGTGCAGCCCGGAGCGGAGCGGAGAAGCCCGGGCCGCGGAAGCGGCC
GGGGAGAATTGGGAGCCGCGCTTTGCCCTACCACCTGCACAGCCCGGCCAGGCCGCC
AAAAAGGCCGTACAGACCCGCTACATCAGCACGGAGCTGGGCATCAGGCAGAGGCTGCTG
GTGGCGGTGCTGACCTCTCAGACCACGCTGCCACGCTGGGCGTGGCCGTGAACCGCACG
CTGGGGCACCGGCTGGAGCGTGTGGTGTCTGACGGGCGCACGGGGCCGCCGGGCCCA
CCTGGCATGGCAGTGGTACGCTGGGCGAGGAGCGACCCATTGGACACCTGCACCTGGCG
CTGCGCCACCTGCTGGAGCAGCACGGCGACGACTTTGACTGGTTCTTCTGGTGCCTGAC
ACCACCTACACCGAGGCGCACGGCCTGGCACGCCTAACTGGCCACCTCAGCCTGGCCTCC
GCCGCCACCTGTACCTGGGCCGCCCCAGGACTTCATCGGCGGAGAGCCACCCCGGC
CGCTACTGCCACGGAGGCTTTGGGGTGCTGCTGCGCGCATGCTGCTGCAACAATGCGC
CCCCACCTGGAAGGCTGCCGCAACGACATCGTCAGTGCGCGCCCTGACGAGTGGCTGGGT
CGCTGCATTCTCGATGCCACCGGGTGGGCTGCACTGGTGACCACGAGGGGGTGCATAT
AGCCATCTGGAGCTGAGCCCTGGGGAGCCAGTGCAGGAGGGGACCCTCATTTCGAAAGT
GCCCTGACAGCCACCCTGTGCGTGACCCTGTGCACATGTACCAGCTGCACAAAGCTTTC
GCCCGAGCTGAACTGGAACGCACGTACCAGGAGATCCAGGAGTTACAGTGGGAGATCCAG
AATACCAGCCATCTGGCCGTTGATGGGGACCGGGCAGCTGCTTGGCCCGTGGGTATTCCA
GCACCATCCCGCCGGCCTCCCGCTTTGAGGTGCTGCGCTGGGACTACTTCACGGAGCAG
CAGCCTTCTCCTGCGCCGATGGCTCACCCCGCTGCCACTGCGTGGGGCTGACCGGGCT
GATGTGGCCGATGTTCTGGGGACAGCTCTAGAGGAGCTGAACCGCGCTACCACCCGGCC
TTGCGGCTCCAGAAGCAGCAGCTGGTGAATGGCTACCGACGCTTTGATCCGGCCCGGGT
ATGGAATACACGCTGGACTTGCAGCTGGAGGCACTGACCCCCAGGGAGGCCGCCGGCCC
CTCACTCGCCGAGTGCAGCTGCTCCGGCCGCTGAGCCGCGTGGAGATCTTGCCTGTGCC
TATGTCACTGAGGCTCACGTCTCACTGTGCTGCTGCCTTAGCTGCGGCTGAGCGTGAC
CTGGCCCTGGCTTCTTGGAGGCCCTTGGCCACTGCAGCACTGGAGCCTGGTGATGCTGCG
GCAGCCCTGACCCTGCTGCTACTGTATGAGCCGCGCCAGGCCAGCGCTGGCCCATGCA
GATGTCTTGCACCTGTCAAGGCCACGTGGCAGAGCTGGAGCGCGTTCCTCCCGGTGCC
CGGGTGCCATGGCTCAGTGTGCAGACAGCCGACCCCTACCACTGCGCCTCATGGATCTA
CTCTCAAAGAAGCACCCGCTGGACACACTGTTCTGCTGGCCGGGCCAGACACAGTGCTC
ACGCTGACTTCTGAACCGCTGCCGATGCATGCCATCTCCGGCTGGCAGGCCTTCTTT
CCCATGCATTTCCAAGCCTTCCACCCAGCTGTGGCCCCACCACAAGGGCCTGGGCCCCCA
GAGCTGGGCCGTGACACTGGCCGCTTTGATCGCCAGGCAGCCAGCGAGGCCTGCTTCTAC
AACTCCGACTACGTGGCAGCCCGTGGGCGCCTGGCGGCAGCCTCAGAACAAGAAGAGGAG
CTGCTGGAGAGCCTGGATGTGTACGAGCTGTTCTCCACTTCTCCAGTCTGCATGTGCTG
CGGGCGGTGGAGCCGGCGCTGCTGCAGCGCTACCGGGCCAGACGTGCAGCGCGAGGCTC
AGTGAGGACCTGTACCACCGCTGCCTCCAGAGCGTGCTTGAGGGCCTCGGCTCCCGAACC
CAGCTGGCCATGCTACTCTTTGAACAGGAGCAGGGCAACAGCACCTGA

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Clone variation with respect to NM\_024536.5  
504 a=>g;1854 g=>a

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_024536 unedited NNGGGTTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCGGTCC GGGCGCCATGCGGGCATCGCTGCTGCTGCTGGTGTGCGGCCCGCAGGGCCCGTGGCCGT GGGCATCTCCCTGGGCTTCAACCTGAGCCTGCTCAGCGTCACCTGGGTGGAGGAGCCGTG CGGCCAGGCCCGCCCAACCTGGAGACTCTGAGCTGCCGCCGCGCGCAACACCAACGC GGCGCGCCGGCCAACTCGTGCAGCCCGAGCGAGCGGAGAAGCCCGGGCCGGCGA AGGCGCCGGGAGAATTGGGAGCCGCGCTTTGCCCTACCACCCTGCACAGCCCGGCCA GGCCGCCAAAAAGGCCGTCAAGACCCGCTACATCAGCACGGAGCTGGGCATCAGGCAGAG GCTGCTGGTGGCGGTGCTGACCTCTCAGACCACGCTGCCACGCTGGGCGTGGCCGTGAA CCGCACGCTGGGGCACCGGCTGGAGCGTGGTGTTCCTGACGGGCGCACGGGGCCGCCG GGCCCCACCTGGCATGGCAGTGGTACGCTGGGCGAGGAGCGACCCATTGGACACCTGCA CCTGGCGTGCGCCACCTGCTGGAGCAGCACGGCGACGACTTTGACTGGTTCTTCTGCT GCCTGACACCACCTACACCGAGGCGCACGGCTGGCACGCCTAACTGGCCACCTCAGCCT GGCCTCCGNCGNCCACCTGTACCTGGGCCGGCCCGAGACTTTCATCGCGGAGAGCCAC CCCCGGCCGCTACTGCCACNGNAGCTNNTGNNGTGCTGCTGTGCGGCATGCTGCTGNCAC ACTGCGCCCCACCTGNAAGGCTGCGCACGACATCGTCAGTGGCGCCCTGACAGTGGNCT GGTCNCTGCATCTCGATGCACCGGGTTGGCTGCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_024536
<b>Insert Size:</b>	3000 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_024536.4</a></u> , <u><a href="#">NP_078812.2</a></u>
<b>RefSeq Size:</b>	2956 bp
<b>RefSeq ORF:</b>	2328 bp
<b>Locus ID:</b>	79586
<b>UniProt ID:</b>	<u><a href="#">Q8IZ52</a></u>
<b>Cytogenetics:</b>	2q35
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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]

Transcript Variant: This variant (1) encodes the longer isoform (1).