

## Product datasheet for **MC219738**

### Chpf (NM\_001001565) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chpf (NM_001001565) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Chpf
Synonyms:	1700028N03Rik; AI414328; D1Bwg1363e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC219738 representing NM\_001001565  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGTGGTGGCACTGGGCGAAGAGAGGCCCATCGACACCTGCACCTGGCGTGGCCACCTGCTGG  
 AGCAACACGGCGATGACTTTGACTGGTTTTTCTAGTGCTGATGCCACCTATACTGAAGCGCATGGACT  
 GGACCGCTAGCTGGCCACCTCAGCCTTCTTCAAGCAACCCATCTCTATCTTGGCCGGCCGAGGACTTC  
 ATCGGTGGAGATACTACCCAGGCCGCTACTGCCACGGGGCTTTGGAGTCTTGTCTCTCGCACACTGC  
 TACAGCAACTGCGCCCCACCTGGAAAGCTGCCGCAACGACATCGTCAGTGTGCGCCGGATGAGTGGTT  
 GGGCCGCTGCATCCTTGTGCCACAGCGTGGGCTGTACTGGTGACCACGAGGAATGCACTACAACACTAC  
 CTGGAAGTGGCCCCGGGAGCCTGTGCAGGAGGGGGACCCTCGTTCCGCGAGCGCTTGACAGCCCATC  
 CCGTGCCTGACCTGTGCACATGTACCAGTGCACAAAGCTTTTGGCCGCGTGGAGTGGACCGCACGTA  
 CCAGGAGATCAAGAATTGCAGTGGGAGATCCAGAATACCAGCCGACTGGCTGCTGATGGGAGAGAGCC  
 TCTGCCTGGCCAGTGGGCATCCAGCACCGTCTCGCCCTGCCTCACGCTTTGAGGTTCTGCGCTGGGACT  
 ACTTCACAGAACAATACGCGTTCTCTGCGCCGATGGCTCTCCCCGCTGCCCGTTGCGTGGGGCCGACCA  
 GGCTGATGTGGCTGACGTCTGGGGACAGCCTTAGAGGAGCTCAACCGCGTTACCAGCCAGCGCTGCAG  
 CTCCAGAAGCAACAGCTGGTGAACGGCTACCGCGTTTTGATCCAGCCGAGGCATGGAGTACACACTAG  
 ACCTGCAGCTGGAAGCGCTGACACCCAGGGTGGCCGCTGGCCCTCACCCGAGGGTGCAGTCTCTTCC  
 GCCCTTGAGCCGAGTGGAGATCTTGCTGTACCTATGTACCGAGGCTTCTCGGCTCACTGTGCTACTG  
 CCGTGGCTGCAGCGGAACGAGACCTGGCTTCTGGCTTCTTGAAGCTTTGCCACTGCAGCCCTGGAAC  
 CTGGTGTGCAGCAGCCTTGACCCTGTGCTGTATGAGCCACGCCAGGCCAGGGCCAGCCCACTC  
 AGACGTCTTCGCACCTGTCAAGGCCACGTGGCAGAGCTAGAGCGGCGTTTTCCCTGGTGGCCGGGTGCC  
 TGGCTCAGTGTGCAGACAGCAGCCCTCTCCACTGCGTCTCATGGATCTGCTGTCCAAGAAGCACCCAC  
 TAGACTCTGTTCTGCTGGCCGGCCAGACACGGTACTCACACCTGATTTCTGAACCGCTGCCGCAT  
 GCATGCCATCTTGGCTGGCAGGCCTTCTCCCATGCACTTCCAGGCCTTCCACCCTGCTGTGGCTCCA  
 CCTCAGGGCCCTGGCCACCAGAGCTGGGCCGTGACACCGGTCACTTTGATCGCCAGGCTGCCAGTGGG  
 CATGCTTCTACAACCTCGACTATGTGGCGGCCGTGGCCGGCTGGTGGCGGCTCGGAGCAGGAGGAGGA  
 GCTGCTGGAGAGCCTGGATGTGTACGAGTTGTTTCTGCGCTTCTCAACTGCACGTGCTGAGAGCAGTA  
 GAGCCAGCCTTGCTGCAGCGTACCGGGCCAGCCGTGCAGTGCACGGCTCAGTGAAGACCTTTACCACC  
 GCTGTCGCCAGAGCGTACTTGAGGGCCTTGGCTCCCGCACCCAGCTTGCCATGCTGCTCTTTGAGCAGGA  
 ACAGGGGAACAGCACCTAA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_001001565

**Insert Size:** 1839 bp

**OTI Disclaimer:** 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).

**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\\_001001565.2](#), [NP\\_001001565.1](#)

**RefSeq Size:** 3250 bp

**RefSeq ORF:** 1839 bp

**Locus ID:** 74241

**UniProt ID:** [Q6IQX7](#)

**Cytogenetics:** 1 39.14 cM

**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 (By similarity). 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 (By similarity). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) includes an alternate exon in the coding region and uses a downstream AUG compared to variant 1. The resulting isoform (b) has a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.