

Product datasheet for **MG210574**

Chpf (NM_001001566) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chpf (NM_001001566) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chpf
Synonyms:	1700028N03Rik; AI414328; D1Bwg1363e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210574 representing NM_001001566
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCGGGCGTCGCTGCTGTCCGTGCTGCGGCCGCGGGGCCGTGGCCGTGGGCATCTCTCTGGCT
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 TCGCCAGAGCGTACTTGAGGGCCTTGGTCCCGCACCCAGCTTGCCATGCTGCTCTTTGAGCAGGAACAG
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AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

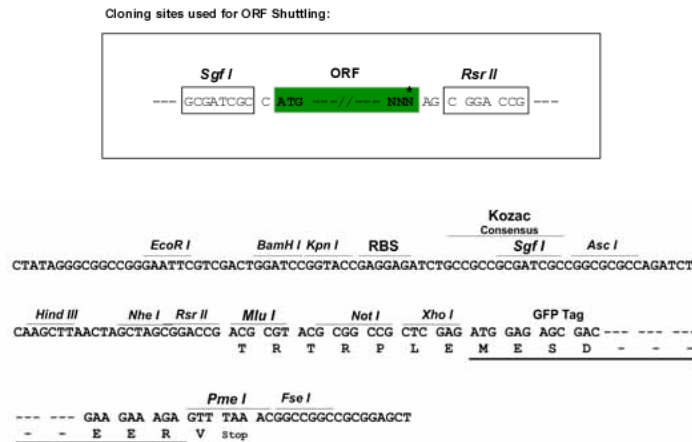
Protein Sequence: >MG210574 representing NM_001001566
 Red=Cloning site Green=Tags(s)

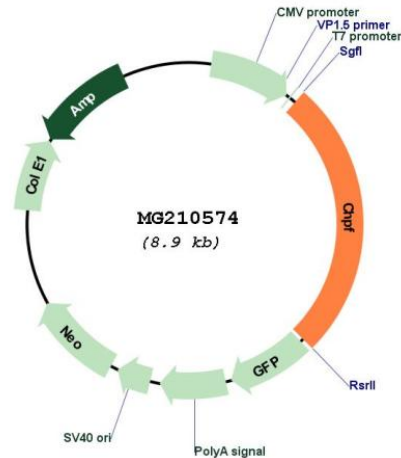
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 LGHRLEHVFLTGARGRTPSGMAVVALGEERPIGHLHLALRHLLLEQHGDDFDWFFLVPDATYTEAHGLD
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 VFAPVKAHVAELERRFPGARVPWLSVQTAAPSPRLRMDLLSKKHPLDTLFLLAGPDTVLPDFLNRCRMH
 AISGWQAFPMHFQAFHPAVAPPQGPPELGRDTGHFDRQAASEACFYNSDYVAARGRLVAASEQEEL
 LESLDVYELFLRFSNLHVLRAVEPALLQRYRAQPC SARLSEDL YHRCRQSVLEGLSRTQLAMLLFEQEQ
 GNST

SGP^{TRRRLE} - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:


ACCN: NM_001001566

ORF Size: 3104 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_001001566.3](#), [NP_001001566.1](#)

RefSeq Size: 3037 bp

RefSeq ORF: 2325 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]