

## Product datasheet for **RR204555**

### **Phtf2 (NM\_001106577) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Phtf2 (NM_001106577) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phtf2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR204555 representing NM\_001106577  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGTCCAGAGTCACAGATGCTATAGTCTGGTATCAGAAGAAGATCGGAGCCTATGATCAACAAATAT  
 GGGAAAAGTCTGTTGAACAAAGAGAAATCAAGGGCTTAAGGAATAAACCAAAGAAAACAGCACATGTGAA  
 ACCAGACCTCATCGACGTTGATCTTGTGAGAGGGTCTGCATTTGCTAAGGCAAAGCCTGAAAAGTCTTGG  
 ACGGCTCTGACTAGAAAAGGGATTGTTGAGATTGTTTTTCCCCTTCTTCTTCCGGTGGTGGCTACAAG  
 TGACATCGAAGGTCATCTTCTCCTGGCTTCTTGTCTCTATCTTCTTCAAGTTGCTGCAATAGTGTATT  
 CTGTTCCGCCCTAGCCCGCATAGCATACTCTAACTGAAGTGATTGGGCCAGTATGGCTGATGCTGCTG  
 CTGGAACTGTGCATTGCCAGATCGTGTCAACGAGAACCCAAACCTCCTCTAAGCACAGGCGGTAAAA  
 GAAGAAGGAAATTAAGGAAAGCAGCCCATTTGGAGGTCCACAGGGAAGGAGACGGTTCTAGCACACAGA  
 CAACACCCAGGAGGGAACGGTGCAGAGTCCCGGCGCAGGCGCCCTTACAGTGTGGGCTCGGTCTTCAGA  
 GATCTCTGGCACGCGCCCTTCTCTTATCAGGGTCAAAGAAGACAAAGAATTCATTGATAAGTCAACTG  
 AGACTGACAATGGCTATGTGTCCCTGGATGGGAAGAGGACTGTAAAAAGCAGCGAGGATGGAGCACAGGA  
 CCATGAGCCTCAGTGTGAAACATTTCGGCCAGAAGACCCGCCTGGGCCACACGAACGCCGAGGAGTGT  
 CCTGCCAAAGATGCCAAAGAAAGATAACAAATGTCTCTGATGAAGTATCCAGTGAGGAGGGTCTGAAA  
 CAGGATACCCATCACGCTGTCTATGGGGACAGAACTCCGAAAGCGGTCTTCGAAATAGAAAGCCACACCA  
 TTATAAAAAGCATTACGCAAATGAGGATGCCCTAAATCGGGTACTAGTTGCAGCTCTCGCTGTTCAAGT  
 TCCAGACAGGATTCTGAGAGCACAAGGCCAGAATCTGAACTGAAGATGTATTATGGGAAGACTTGTAC  
 ATTGTGCAGAATGCCGCTCCTCCTGTACCAGTGAGACAGATGTGGGAAATCCTCAGATAAATCCATGGG  
 GAAAAAAGAATATAGAGACGACCCTTCCATCAGACTCATTTACCCTGGCTTCATAGTTCCACCCGGGA  
 TTAGAAAAATCAGTGCTATAGTGTGGGAAGGCAATGACTGTAAGAAAGCAGACATGTCCGTACTTGAAA  
 TCAGTGGGATGATCGTGAACAACCACGTACCGGCATAGGGTACCAGATCTTTGGAAATGCTGTCTCCCT  
 GATCCTGGGCTTCACCCATTTGTTTTCCGACTGTCAAGCCACAGACTTGGAGCAGCTCACAGCCCAC  
 TCTGCCTCAGAACTTTATGTGATTGCATTTGGCTCGAACGAAGATTTTCATGGTCTGTCTATGGTCTGA  
 TAAGTTTTGTGGTTCGCGTGTCTTGTATGGATCTTCTTCTTTCTGCTGTGTAGCAGAGAGAACATA  
 TAAGCAACGATTACTCTTTGCAAACTCTTTGGACATTTGACATCTGCAAGGAGAGCTCGGAAATCTGAG  
 GTTCTCATTTCCGGTTGAAGAAAGTACAGAATATAAAAATGTGGCTGTCTCTCCGTTCCATCTTAAGC  
 GCCGAGGCCCTCAGCGGTCCGTGGATGTCATCGTCTCATCCGCCTTCTACTGACAATCTCCGTCGTGTT  
 CGTCTGCTGTGCTCAGCTGCTCCACGTGCATGAGATCTTCTCGACTGTCACTACAACCTGGGAGCTGGCG  
 ATCTGGTGCATCTCCCTGTCACTGTTTCTCCTGAGGTTTGTCACTCTCGGATCAGAAACCAGCAAAAAAT  
 ACAGCAATACCTCAATTACTCACAGAGCAGATAAACCTCTACTTGAAAATGGAGAAGAAACCTAACAA  
 GAAGGAGGAGCTGACCCTTGTGAACAATGTTTTAAAGCTGGCTACTAAGCTACTAAGGAGCTGGACAGT  
 CCCTTCAGGTTGTACGGACTACAATGAACCCACTGCTATACAACATCACCCAGGTTGTCATCCTGTGAG  
 CTGTCTCCGGTGCATAAGTGACTTGCTTGGATTAATTTAAAGCTGTGGAAGATCAAATCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR204555 representing NM\_001106577  
 Red=Cloning site Green=Tags(s)

MASRVTD AIVWYQKKIGAYDQQIWEKSVEQREIKGLRNKPKKTAHVKPDLDVDLVRGSAFAKAKPESPW  
 TALTRKGI VRVFFPFFFRWWLQVTSKVFISWLLVLYLLQVAI VLFCSAPSPHSIPLTEVIGPVWMLL  
 LGTVHCQIVSTRTPKPLSTGGKRRRRLRKA AHLEVHREGDGSSTTDNTQEGTVQSPGAGAPYSVGSVFR  
 DLWHA AFLLSGSKTKNSIDKSTETDNGYVSLDGKRTVKSS EDGAQDHEPQCETIRPEDTAWATRTPRSV  
 PAKDAQRKITNVSD EVSSEEGPETGYPSRCHGDRTSEGLRNRKPHHYKKHYANEDAPKSGTSCSSRCSS  
 SRQDSESTRPESETEDVLWEDLLHCAECRS SCTSETDVGNPQINPCGKKEYRDDPFHQTHLPWLHSSHPG  
 LEKISAI VWEGNDCKKADMSVLEISGMIVNNHVP GIGYQIFGNAVSLILGFTPFVFRLSQATDLEQLTAH  
 SASELYVIAFGSNEDFMVLSMVLISFVVRVSLVWIFFLLCVAERTYKQRL LFAKLFGHLSARRARKSE  
 VPHFRLKVKQNIKMWLSLRSYLKRRGPQRSVDVIVSSAFLLTISVVFVCCAQLLHVHEIFLDCHYNWELA  
 IWCISLSLFLRFVTLGSETSKKYSNTSILLTEQINLYLKM EKKPNKKEELTLVNNVLK LATKLLKELDS  
 PFRLYGLTMNPLLYNITQVVILSAVSGV ISDLLGFNLK LKWKIKS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

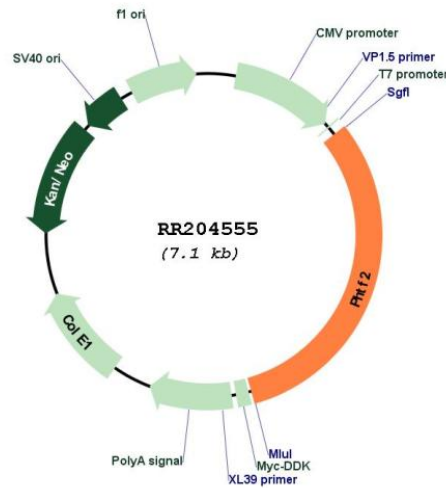
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



**ACCN:** NM\_001106577

**ORF Size:** 2232 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\\_001106577.1](#), [NP\\_001100047.1](#)

**RefSeq Size:** 4778 bp

**RefSeq ORF:** 2235 bp

Locus ID: 296762  
Cytogenetics: 4q11  
MW: 83.9 kDa