

Product datasheet for **MG211564**

Ptk7 (NM_175168) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptk7 (NM_175168) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ptk7
Synonyms:	8430404F20Rik; chz; mPTK7/CCK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211564 representing NM_175168 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGCCCGCCGCTGACTCTGCTCAGAGCCCTGCTTCTGCCGCTGCTGGCCGGTGCCCAAGCCGCTA
TCGTCTTTATCAAGGAGCCGCTCTCCAGGATGCACTTCAAGGGCGCCGGGCGCTGCTCCGTTGTGAAGT
GGAGGCTCCGGACCCGGTGCACGTGTACTGGCTGCTCAATGGGGTGCCTGTCCAGGACACGGAGCGACGG
TTTGCCAGGGCAGCAGCCTGAGTTTCGACGTGTGGACCGCTCCAGGATCTGGTGTCTTCCAGTGTG
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AGCAGGTCTGTGGTCTGAAGCACCCAGCCTCAGAAGCTGAGATCCAGCCCCAGACCCAGTCCACTG
CGATGTACATTGACGGGCACCCCTCGGCCACCTACCAGTGGTCCGAGATGGGACCCCTCTCTGATG
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TGGCCTTACTCTGTGTGCCACAATGCCTTTGGCCAGGCCTGCAGCAGCCAGAACTTCACTTGTGAGT
GTTGCAGATGAAAGCTTTGCCAGGGTGGTGTGGCACCTCAGGATGTTGTTGTAGCAAGGAACGAGGAGG
CCATGTTCCATTGCCAGTTTTAGCCAGCCACCCCGAGCCTGCAGTGGGTCTTTGAGGACGAGACTCC
CATCACTAACCGAAGCCGTCCCCCTCACCTCCGCAGAGCTGTGGTGTGGCAATGGCTCTCTGTGCTG
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CTGAAAAAACAAGTTCACGCCACCACCGCAGCCACAGCAGTGCATGGAGTTTGATAAGGAGGCTACGG
TGCCCTGCTCAGCCACTGGCCGGGAGAAGCCCACGGTTAAGTGGGTACGGGCAGATGGAAGTAGCCTCCC
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GTCTGGGCTTTGGTGTGCTCATGTGGGAAGTGTCTACTCATGGAGAGATGCCCATGGTGGACAGGCAG
ATGATGAGGTGCTGGCAGACTTGCAGGCTGGCAAGGCTCGACTCCCGCAGCCCGAAGGCTGCCGCTCAA
GCTCTACCGGCTGATGCAGCGCTGCTGGGCCCGAACCCCAAGGACCGGCCCTCCTTCAGTGAGATCGCC
AGCACCTGGGAGACAGCCTGCAGACAGCAAGCAG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211564 representing NM_175168
 Red=Cloning site Green=Tags(s)

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MGARPLTLRALLPLLAGAQAIVFIKEPSSQDALQRRALLRCEVEAPDPVHVYLLNGVPVQDTERR
FAQSSLSFAAVDRLQDSGAFQCVARDNVTGEEVRSTNASFNKIEAGPVVLKHPASEAEIQPQTQVTL
RCHIDGHPRTYQWFRDGTPLSDDQSTHTVSSRERNLTLRPASPEHSLYSCCAHNAFGQACSSQNFSL
VADESFARVVLAPODVVARNEEAMFHCQFSAQPPPSLQWVFEDETPITNRSRPPHLRRAVVFANGSLLL
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AGVPLPAHGRVHQKLELVFVTIAESDTGVYTTCHASNLAGQRRQDVNITVATVPTWLRKPKQDSQLEEGP
GYLHCLTQATPKPTVIWYRNQMLISEDSRFEVSKNGTLRINSVEVYDGTLYRCVSSPTAGSIEAQRVQV
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VGAAYAYIIIAVLGLMFYCKRCKAKRLQKQPEGEPEMECLNNGPLQNGQPASAEIQEEVALTSLGSGPPA
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MFGKLNHANVVRLLGLCREAEPHYMVLEYVDLGDLDKQFLRISKNKDEKLKSOPLSTKQKVALCSQVALGM
EHL SNNRFVHKDLAARNCLISAQRQVKVSALGLSKDVYNSEYYHFRQAWVPLRWMSPEAVLEGDFSTKSD
VWAFGVLMEVFTHGEMPHGGQADDEVLADLQAGKARLPQPEGCP SKLYRLMQRCAWPNPKDRPSFSEIA
STLGDSPADSKQ
```

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_175168

ORF Size: 3186 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_175168.4](#)

RefSeq Size: 4187 bp

RefSeq ORF: 3189 bp

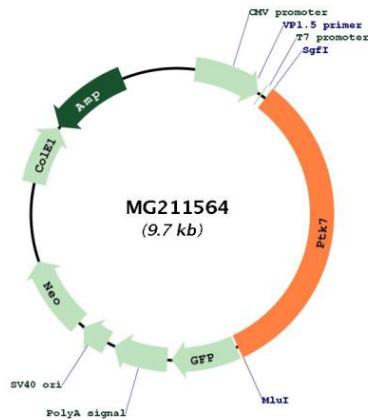
Locus ID: 71461

UniProt ID: [Q8BKG3](#)

Cytogenetics: 17 C

Gene Summary: Inactive tyrosine kinase involved in Wnt signaling pathway. Component of both the non-canonical (also known as the Wnt/planar cell polarity signaling) and the canonical Wnt signaling pathway. Functions in cell adhesion, cell migration, cell polarity, proliferation, actin cytoskeleton reorganization and apoptosis. Has a role in embryogenesis, epithelial tissue organization and angiogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG211564