

Product datasheet for **MR211564**

Ptk7 (NM_175168) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptk7 (NM_175168) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ptk7
Synonyms: 8430404F20Rik; chz; mPTK7/CCK4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR211564 representing NM_175168
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGCCCGCCGCTGACTCTGCTCAGAGCCCTGCTTCTGCCGCTGCTGGCCGGTGCCCAAGCCGCTA
TCGTCTTTATCAAGGAGCCGCTCCAGGATGCACTTCAAGGGCGCCGGGCGCTGCTCCGTTGTGAAGT
GGAGGCTCCGGACCCGGTGCACGTGTACTGGCTGCTCAATGGGGTGCCTGTCCAGGACACGGAGCGACGG
TTTGCCAGGGCAGCAGCCTGAGTTTCGACGTGTGGACCGCTCCAGGATCTGGTCTTCCAGTGTG
TGGCTCGGATAACGTCCTGGAGAGGAAGTCCGCACTAATGCCTCCTTCAACATCAATGGATCGA
AGCAGGTCTGTGGTCTGAAGCACCCAGCCTCAGAAGCTGAGATCCAGCCCAGACCCAGTCCACTG
CGATGTACATTGACGGGCACCCCTCGGCCACCTACCAGTGGTCCGAGATGGGACCCCTCTCTGATG
ATCAGAGCACCCACCCGTCAGCAGCAGGGAGAGGAACCTGACCTACGGCCAGCCAGTCCCGAACATAG
TGGCCTTACTCTGTGTGCCACAATGCCTTTGGCCAGGCCTGCAGCAGCCAGAACTTCACTTGTGAGT
GTTGCAGATGAAAGCTTTGCCAGGGTGGTGTGGCACCTCAGGATGTTGTTGTAGCAAGGAACGAGGAGG
CCATGTTCCATTGCCAGTTTTAGCCAGCCACCCCGAGCCTGCAGTGGGTCTTTGAGGACGAGACTCC
CATCACTAACCGAAGCCGTCCCCCTCACCTCCGACAGCTGTGGTGTGCAATGGCTCTCTGTGCTG
ACCCAAGTCCGGCCACGGAATGCAGGCGTCTACCGTTGCATCGGTACGGACAGAGGGGCCACCCATTG
TCCTGGAAGCCACTCTCCACTGGCAGAGATTGAAGACATGCTGCCGTTTGAACCCAGGGTGTTCATAGC
TGGTGATGAGGAACGAGTCACCTGCCAGCCCGCCAGGGCCTGCCTACACCCAGTGTCTGGTGGGAGCAT
GCTGGAGTCCCTTCTCTGCCATGGCAGGGTCCACCAGAAGGGCCTTGAGCTTGTGTTGTCCACCATCG
CTGAGAGTGATACTGGTGTCTACACCTGCCATGCAAGCAACCTGGCTGGTACGGCGGACAGGATGTCAA
TATCACAGTGGCCACTGTACCCACATGGCTTAGGAAGCCCAAGACAGCCAGCTGGAAGAGGGCAAGCCT
GGCTACTTGCAGTGTCTGACACAGGCCACACCCAAAGCCACTGTGATCTGGTACAGGAACCATGCTGA
TCTCAGAGGACTCGAGGTTTGAAGTTTGAAGAATGGGACCTTGGCATCAATAGTGTGGAGGTGTATGA
CGGACATTGTACCGTTGCGTGAGCAGTACCCAGCCGGCAGCATCGAGGCCAGGCCGAGTCCAGGTG



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CTGAAAAACTCAAGTTCACGCCACCACCGCAGCCACAGCAGTGCATGGAGTTTGATAAGGAGGCTACGG
 TGCCCTGCTCAGCCACTGGCCGGGAGAAGCCACGGTTAAGTGGGTACGGGCAGATGGAAGTAGCCTCCC
 TGAATGGGTGACAGACAATGCTGGAACCTACACTTTGCCCGAGTGACCCGAGATGATGCTGGAACTAC
 ACTTGCATTGCATCCAACGAGCCACAGGGCCAGATCCGCGCTCATGTCCAGCTGACGGTGGCAGTTTTCA
 TCACCTTCAAAGTGAACCTGAGCGTAACTGTGTACCAGGGCCACACAGCGTCTGCGGTGTGAGGC
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 CCCAGATGCACATCTCCAGAACGGTTCCTGGTGATCCATGACGTGGCCCTGAGGACTCAGGCTCCT
 ACACCTGCATCGCTGGCAACAGCTGTAACATCAGGCACACAGAGGCCCGCTCTTAGTCGTGGACAAGCC
 AGTGATGGAAGACTCGGAGGGCCAGGCAGCCCTCCCCATACAAGATGATCCAGACCATCGGGCTGTCG
 GTGGGCGCAGCGGTAGCCTACATCATCGCGTCTGGGCCTCATGTTCTACTGCAAGAAGCGGTGTAAG
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 GAATGGTCAGCCATCAGCCGAGATCCAGGAAGAAGTGGCGTTGACCAGCTTGGGCTCGGCCCCAGCC
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 TGGGAAAAGCGAGTTCGGGGAGGTGTTCTGGCAAAGGCGCAGGGCGTAGAGGAAGGCGCAGCGGAGAC
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 ATGTTCCGGAAGTTGAACCATGCCAACGTGGTGGGCTTCTGGGCTGTGCCGGGAGGCTGAGCCCCACT
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 AAAGTTGAAGTACAGCCCTCAGCACCAACAGAAGGTGGCCCTGTGTTCCAGGTGGCCCTGGGCATG
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 GGCAGGTGAAGGTGTCCGCACTGGGCTGAGCAAGGATGTATAACAACAGTGAAGTACTACCACTCCGCCA
 GGCCTGGTACCTCTGCGTTGGATGTCTCCAGAGGCTGTCTGGAGGGTACTTCTCCACTAAGTCTGAT
 GTCTGGGCTTTGGTGTGCTCATGTGGGAAGTGTCTCATGGAGAGATGCCCATGGTGGACAGGCAG
 ATGATGAGGTGCTGGCAGACTTGCAGGCTGGCAAGGCTCGACTCCCGAGCCCGAAGGCTGCCGCTCAA
 GCTCTACCGGCTGATGCAGCGCTGTGGGCCCGAACCCCAAGGACCGGCCCTCTCAGTGAGATCGCC
 AGCACCTGGGAGACAGCCTGCAGACAGCAAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211564 representing NM_175168

Red=Cloning site Green=Tags(s)

MGARPLTLLRALLPLLAGAQAIAIVFIKEPSSQDALQGRRALLRCEVEAPDPVHVYLLNGVVPVQDTERR
 FAQGSSLSFAAVDRLQDSGAFQCVARDNVTGEEVSTNASFNKWIIEAGPVVLPKHPASEAIEIQPQTQVTL
 RCHIDGHPRTYQWFRDGTPLSDDQSTHTVSSRERNLTLRPASPEHSLYSCCAHNAFGQACSSQNF TLS
 VADESFAVV LAPQDVVARNEEAMFHCQFSAQPPPSLQWVFEDETPITNRSRPHLRRAVVFANGSLLL
 TQVRPRNAGVYRCIGQGQRGPPIVLEATLHLAEIEDMLPFEPVFIAGDEERVTCAPQGLPTPSVWWEH
 AGVPLPAHGRVHQKLELVFVTIAESDTGVYTTCHASNLAGQRRQDVNITVATVPTWLRKQDSQLEEGKP
 GYLHCLTQATPKPTVIWYRNQMLISEDSRFEVSKNGTLRINSVEVYDGTLYRCVSTPAGSIEAQRVQV
 LEKLFKTPPPQPQCMEFDKEATVPCSATGREKPTVKWVRADGSSLPEWVTDNAGTLHFARVTRDDAGNY
 TCIASNEPQQQIRAHVQLTVAVFITFKVEPERTVYQGHALLRCEAQGDPKPLIQWKGKDRILDPTKLG
 PRMHIFQNGSLVIHDVAPEDSGSYTCIAGNSCNIRHTEAPLLVVDKPMEDSEPGSPPPYKMIQTIGLS
 VGA AVAYIIAVLGLMFYCKKRCKAKRLQKQPEGEPEMECLNNGPLQNGQPSAEIQEEVALTSLGSGPPA
 TNKRHSAGDRMHFPRASLQPIITLTKSEFGEVFLAKAQGVEEGATETLVVLSLQSRDEQQQLDFRREVE
 MFGKLNHANVVRLGLCREAEPHYMVLEYVDLGDLDKQFLRISKNKDEKLKSOPLSTKQKVALCSQVALGM
 EHL SNNRFVHKDLAARNCLI SAQRQVKVSALGLSKDVYNSEYYHFRQAWVPLRWMSP EAVLEGDFSTKSD
 VWAFGVLMEVFTHGEMPHGGQADDEVLADLQAGKARLPQPEGCP SKLYRLMQRCAWPNPKDRPSFSEIA
 STLDSPADSKQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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).

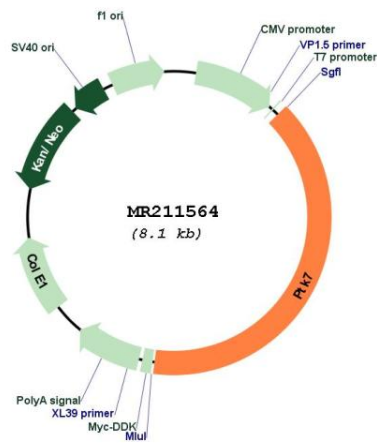
Reconstitution Method:

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
 MW: 118 kDa

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 MR211564