

## Product datasheet for **RG209690**

### CCK4 (PTK7) (NM\_002821) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCK4 (PTK7) (NM_002821) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCK4
Synonyms:	CCK-4; CCK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209690 representing NM_002821 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGAGCTGCGCGGGGATCCCCGGCCAGACCCCGCCGGTTGCCTCTGCTCAGCGTCTGCTGCTGCCGC  
TGCTGGGCGGTACCCAGACAGCCATTGTCTTCATCAAGCAGCCGCTCTCCAGGATGCACTGCAGGGGCG  
CCGGGCGTCTCGCTGTGAGGTTGAGGCTCCGGGCCGGTACATGTGTACTGGCTGCTCGATGGGGCC  
CCTGTCCAGGACACGGAGCGGCTTTCGCCAGGGCAGCAGCCTGAGCTTTCAGCTGTGGACCGGCTGC  
AGGACTCTGGCACCTCCAGTGTGTGGCTCGGGATGATGTCACTGGAGAAGAAGCCCGCAGTGCCAAACGC  
CTCCTTCAACATCAAATGGATTGAGGCAGGTCCTGTGGTCTGAAGCATCCAGCCTCGGAAGCTGAGATC  
CAGCCACAGACCCAGGTCACACTTCGTTGCCACATTGATGGGCACCCCTCGGCCACCTACCAATGTTCC  
GAGATGGGACCCCTTTCTGATGGTCAGAGCAACCACACAGTCAGCAGCAAGGAGCGGAACCTGACGCT  
CCGGCCAGCTGGTCTGAGCATAGTGGGCTGTATTCTGCTGCGCCACAGTGTCTTTGGCCAGGCTTGC  
AGCAGCCAGAACTTACCTTGAGCATTGCTGATGAAAGCTTTGCCAGGGTGGTGTGACACCCAGGACG  
TGGTAGTAGCGAGGTATGAGGAGGCCATGTTCCATTGCCAGTTCTCAGCCAGCCACCCCGAGCCTGCA  
GTGGCTCTTTGAGGATGAGACTCCCATCACTAACCGCAGTCGCCCCCACACCTCCGAGAGCCACAGTG  
TTTGCCAAACGGTCTCTGCTGTGACCCAGGTCGGGCCACGCAATGCAGGGATCTACCGTGCATTGGCC  
AGGGGCAGAGGGGCCACCCATCATCTGGAAGCCACACTTCACCTAGCAGAGATTGAAGACATGCCGCT  
ATTTGAGCCACGGGTGTTTACAGCTGGCAGCGAGGAGCGTGTGACCTGCCTTCCCCCAAGGGTCTGCCA  
GAGCCAGCGTGTGGTGGGAGCACGCGGGAGTCCGGCTGCCACCCATGGCAGGGTCTACCAAGAAGGGCC  
ACGAGCTGGTGTGGCCAAATTGCTGAAAGTGATGCTGGTGTCTACACCTGCCACGCGGCCAACCTGGC  
TGGTCAGCGGAGACAGGATGTCAACATCACTGTGGCCACTGTGCCCTCTGGCTGAAGAAGCCCCAAGAC  
AGCCAGCTGGAGAGGGCAAACCCGGCTACTTGGATTGCCTGACCCAGGCCACACCAAAACCTACAGTTG  
TCTGGTACAGAAACCAGATGCTCATCTCAGAGGACTCACGGTTCGAGGTCTTCAAGAATGGGACCTTGGC  
CATCAACAGCGTGGAGGTGATGATGGGACATGGTACCGTTGATGAGCAGCACCCAGCCGGCAGCATC



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GAGGCGCAAGCCCGTGTCCAAGTCTGGAAAAGCTCAAGTTCACACCACCACCCAGCCACAGCAGTGCATGGAGTTTGACAAGGAGGCCACGGTGCCCTGTTTCAGCCACAGGCCGAGAGAAGCCCACTATTAAGTGGGACGGGCAGATGGGAGCAGCCTCCAGAGTGGGTGACAGACAACGCTGGGACCCTGCATTTTGCCCGGGTACTCGAGATGACGCTGGCAACTACACTTGCACTTGCCTCCAACGGGCCGAGGGCCAGATTCGTGCCCATGTCCAGCTCACTGTGGCAGTTTTATCACCTTCAAAGTGAACAGAGCGTACGACTGTGTACCAGGGCCACACAGCCCTACTGCAGTGCAGGGCCAGGGGGACCCCAAGCCGCTGATTCAGTGGAAAGGCAAGGACCGCATCCTGGACCCCAAGCTGGGACCCAGGATGCACATCTTCCAGAATGGCTCCCTGGTGATCCATGACGTGGCCCTGAGGACTCAGGCCGCTACACCTGCATTGCAGGCAACAGCTGCAACATCAAGCACACGGAGGCCCCCTCTATGTCGTGGACAAGCCTGTGCCGGAGGAGTCCGGAGGGCCCTGGCAGCCCTCCCCCTACAAGATGATCCAGACCATGGGTTGTCCGGTGGGTGCCGCTGTGGCTACATCATTGCCGTGCTGGGCTCATGTTCTACTGCAAGAAGCGCTGCAAAGCCAAGCGGCTGCAGAAGCAGCCGAGGGCGAGGAGCCAGAGATGGAATGCTCAACGGTGGGCTTTGCAGAACGGGCAGCCCTCAGCAGAGATCCAAGAAGAAGTGGCCTTGACCAGCTTGGGCTCCGGCCCCGGCCACCAACAACGCCACAGCACAAGTATAAGATGCACCTCCACGGTCTAGCCTGCAGCCATCACCACGCTGGGAAGAGTGAGTTTGGGAGGTGTTCTGGCAAAGGCTCAGGGCTTGAGGAGGGAGTGGCAGAGACCCTGGTACTTGTGAAGAGCCTGCAGAGCAAGGATGAGCAGCAGCAGCTGGACTTCCGGAGGGAGTTGGAGATGTTTGGGAAGCTGAACCAGCCAAAGTGGTGCAGGCTCCTGGGGCTGTGCCGGGAGGCTGAGCCCCACTACATGGTGTGGAATATGTGGATCTGGGAGACCTCAAGCAGTTCCTGAGGATTTCCAAGAGCAAGGATGAAAAATTGAAGTACAGCCCTCAGCACCAAGCAGAAGGTGGCCCTATGCACCAGGTAGCCCTGGGCATGGAGCACCTGTCCAACAACCGCTTTGTGCATAAGGACTTGGCTGCGCGTAAGTGCCTGGTCAAGTGCAGCCAGAGACAAGTGAAGGTGTCTGCCCTGGGCTCAGCAAGGATGTGTACAAAGTGAGTACTACCACTCCGCCAGGCCCTGGGTGCCGCTGCGCTGGATGTCCCCGAGGCCATCCTGGAGGGTGACTTCTCTACCAAGTCTGATGTCTGGCCCTCGGTGTCTGATGTGGGAAGTGTTCACAGATGGAGATGCCCCATGGTGGGAGGCAGATGATGAAGTACTGGCAGATTTGCAGGCTGGGAAGGCTAGACTTCCACGCCGAGGGCTGCCCTTCCAAACTCTATCGGCTGATGCAGCGCTGCTGGGCCCTCAGCCCCAAGGACCGGCCCTCCTTCACTGAGATTGCCAGCGCCTGGGAGACAGCACCGTGGACAGCAAGCCG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG209690 representing NM\_002821

Red=Cloning site Green=Tags(s)

MGAARSPARPRRLPLLSVLLLPLLGGTQTAIVFIKQPSSQDALQGRRALLRCEVEAPGPVHVYWLDDGAPVQDTERFAQSSLSFAAVDRLQDSGTFQCVARDDVTGEEARSANASFNKWIIEAGPVVVKHPASEAEIQPQTQVTLRCHIDGHRPTYQWFRDGTPLSDGQSNHTVSSKERNLTLRPAPEHSGLYSCAHSFAFGQACSSQNFSLIADESFARVVLAPQDVVVARYEAMFHCQFSAQPPPSLQWLFEDETPITNRSRPHLRATVFANGSLLLTVRPRNAGIYRCIGQGQRGPPPIILEATLHLAEIEDMPLFEPVFTAGSEERVTCCLPPKGLPEPSVWWEHAGVRLPTHGRVYQKGHELVLANIAESDAGVYTCCHAANLAGQRRQDVNITVATVPSWLKKPQDSQLEEGKPGYLDCLTQATPKPTVVWYRNQMLISEDSRFEVFKNGTLRINSVEVYDGTWYRCMSSTPAGSIEAQARVQVLEKLFKTPPPQPPQCMFDEKATVPCSATGREKPTIKWERADGSSLPEWVTDNAGTLHFARVTRDDAGNYTCIASNGPQQQIRAHVQLTVAVFITFKVEPERTTVYQGHALLQCEAQGDPKPLIQWKGDRIILDPTKLGPRMHIFQNGSLVIHDVAPEDSGRYTCIAGNSCNIKHTEAPLYVVDKPVPEESEGGSPPPYKMIQTIGLSVGAAYAYIIAVLGLMFYCKKRCKAKRLQKQPEGEPEMECLNGGPLQNGQPSAEIQEEVALTSLGSGPAATNKRHSTSDKMHFPRSSLQPITTLGKSEFGEVFLAKAQGLEEVAETLVLKSLQSKDEQQQLDFRRELEMFGLNHANVVRLGLCREAEPHYMVLEYVDLGDLLKQFLRISKSKDEKLKSQLSTKQKVALCTQVALGMEHLNNRFVHKDLAARNCLVSAQRQVKVSALGLSKDVYNSEYYHFRQAWVPLRWMSPEAILEGDFSTKSDVWAFGLMWEVFTHGEMPHGGQADDEVLADLQAGKARLPQPEGCPKLYRLMQRWALSPKDRPSFSEIASALGDSTVDSKP

TRTRPLE – GFP Tag – V

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1619\\_e03.zip](https://cdn.origene.com/chromatograms/ja1619_e03.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_002821

**ORF Size:** 3210 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](mailto: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.

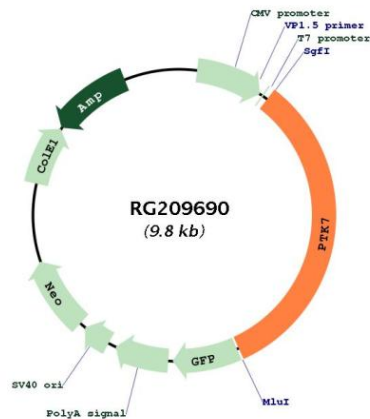
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**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:	<u>NM_002821.5</u>
RefSeq Size:	4249 bp
RefSeq ORF:	3213 bp
Locus ID:	5754
UniProt ID:	<u>Q13308</u>
Cytogenetics:	6p21.1
Domains:	pkinase, TyrKc, S_TKc, ig, IGc2, IG
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Gene Summary:	This gene encodes a member of the receptor protein tyrosine kinase family of proteins that transduce extracellular signals across the cell membrane. The encoded protein lacks detectable catalytic tyrosine kinase activity, is involved in the Wnt signaling pathway and plays a role in multiple cellular processes including polarity and adhesion. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]

**Product images:**



Circular map for RG209690