

## Product datasheet for **RG235161**

### CCK4 (PTK7) (NM\_001270398) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCK4 (PTK7) (NM_001270398) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTK7
Synonyms:	CCK-4; CCK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG235161 representing NM_001270398 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAGTTTCTGTGCGGGGAGAAAAGACCATCCGCACCCACCGTGGGGAGCGCGATGGAGAAAAAGG  
AATCCCCACCCACCCGGCAGGGTCGGCCAGGTACCCAGACAGCCATTGTCTTCATCAAGCAGCCGTC  
CTCCCAGGATGCACTGCAGGGGCGCCGGGCGTCTTCGCTGTGAGGTTGAGGCTCCGGGCCGGTACAT  
GTGTACTGGCTGCTCGATGGGGCCCTGTCCAGGACACGGAGCGGCTTCGCCCAGGGCAGCAGCCTGA  
GCTTTGCAGCTGTGGACCGCTGCAGGACTCTGGCACCTCCAGTGTGTGGCTCGGGATGATGTCAGTGG  
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CATCCAGCCTCGGAAGCTGAGATCCAGCCACAGACCCAGGTCACACTTCGTTGCCACATTGATGGGCACC  
CTCGGCCACCTACCAATGGTCCGAGATGGGACCCCTTTCTGATGGTCAGAGCAACCACACAGTCAG  
CAGCAAGGAGCGGAACCTGACGCTCCGGCCAGCTGGTCTGAGCATAGTGGGCTGTATTCTGCTGCGCC  
CACAGTGTCTTTGGCCAGGCTTGACGACGCCAGAACTTCACTTGAGCATTGCTGATGAAAGCTTTGCCA  
GGTGGTGTGGCACCCAGGACGTGGTAGTAGCGAGGTATGAGGAGGCCATGTTCCATTGCCAGTTCTC  
AGCCCAGCCACCCCGAGCCTGCAGTGGCTCTTTGAGGATGAGACTCCCATCACTAACCGCAGTCGCCCC  
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ATGGCAGGGTCTACCAGAAGGGCCACGAGCTGGTGTGGCCAATATTGCTGAAAGTATGCTGGTGTCTA  
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AGCAGCACCCAGCCGGCAGCATCGAGGCGCAAGCCCGTGTCCAAGTGTGGAAAAGCTCAAGTTCACAC
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AGAGAAGCCCACTATTAAGTGGGAACGGGCAGATGGGAGCAGCCTCCAGAGTGGGTGACAGACAACGCT
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ATGTCCCCGAGGCCATCCTGGAGGGTACTTCTACCAAGTCTGATGTCTGGCCTTCGGTGTGCTGA
TGTGGAAAGTGTACACATGGAGAGATGCCCATGGTGGCAGGCAGATGATGAAGTACTGGCAGATTT
GCAGGCTGGGAAGGCTAGACTTCTCAGCCGAGGGCTGCCCTTCAAACCTCTATCGGCTGATGCAGCGC
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TGGACAGCAAGCCG
    
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG235161 representing NM\_001270398

Red=Cloning site Green=Tags(s)

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MGSFLSGEKRPSAPTVGSAEKKFPTPPGRVPGTQTAVFVFKQPSQDALQGRALLRCEVEAPGPVH
VWLLDGAAPVQDTERFAQSSLSFAAVDRLQDSGTFQCVARDDVTGEEARSANASFNKIEWEAGPVVVK
HPASEAEIQPQTQVTLRCHIDGHPRTYQWFRDGTPLSDGQSNHTVSSKERNLTLRPAPEHSLYSCCA
HSAFGQACSSQNFSLIADESFAVVLPQDVVARYEAMFHCQFSAQPPPSLQWLFEDETPITNRSRP
PHLRRATVFANGSLLLQVPRNAGIYRCIGGQRGPPVILEATLHLAEIEDMPLFEPVFTAGSEERV
CLPPKGLPEPSVWWEHAGVRLPTHGRVYQKGHELVLANIAESDAGVYTCHANLAGQRRQDVNITVATVP
SWLKKPQDSQLEEGKPGYLDCLTQATPKPTVVWYRNQMLISEDSRFEVFKNGTLRINSVEYDGTWYRCM
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PGSPPPYKMIQTIGLSVGAAYAVIIAVLGLMFYCKKRCKAKRLKQPEGEEPEMECLNGGPLQNGQPSAE
IQEEVALTSLGSGPAATNKRHSTSDKMHPRSSLQPIITLTKSEFGEVFLAKAQGLEEGVAETLVVKS
QSKDEQQQLDFRRELEMFGLNHNANVRLGLCREAEPHYMVLEVVDLGLKQFLRISKSKDEKLSQPL
STKQKVALCTQVALGMEHLNNRFVHKDLAARNCLVSAQRQVKVSALGLSKDVYVSEYHFRQAWVPLRW
MSPEAILEGDFSTKSDVWAFGVLMEVFTHGEMPHGGQADDEVLADLQAGKARLPQEGCPSKLYRLMQR
CWALSPKDRPSFSEIASALGDSTVDSKP
    
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TRTRPLE - GFP Tag - V

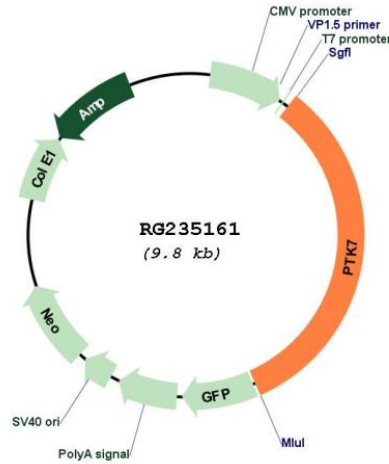
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001270398

ORF Size: 3234 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001270398.1, NP_001257327.1</u>
<b>RefSeq Size:</b>	4146 bp
<b>RefSeq ORF:</b>	3237 bp
<b>Locus ID:</b>	5754
<b>UniProt ID:</b>	<u>Q13308</u>
<b>Cytogenetics:</b>	6p21.1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Gene Summary:</b>	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]