

## Product datasheet for **RG220322**

### **CCK4 (PTK7) (NM\_152881) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CCK4 (PTK7) (NM_152881) 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)



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**ORF Nucleotide Sequence:**

>RG220322 representing NM\_152881  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGAGCTGCGCGGGGATCCCCGGCCAGACCCCGCCGGTTGCCTCTGCTCAGCGTCCTGCTGCTGCCG  
 TGCTGGGCGGTACCCAGACAGCCATTGTCTTCATCAAGCAGCCGCTCCAGGATGCACTGCAGGGGCG  
 CCGGGCGCTGTTTCGCTGTGAGGTTGAGGCTCCGGGCCCGGTACATGTGTACTGGCTGCTCGATGGGGCC  
 CCTGTCCAGGACACGGAGCGGCTTTCCGCCAGGGCAGCAGCCTGAGCTTTGCAGCTGTGGACCGGCTGC  
 AGGACTCTGGCACCTTCCAGTGTGTGGCTCGGGATGATGTCACTGGAGAAGAAGCCCGCAGTGCCAAACGC  
 CTCCTTCAACATCAAATGGATTGAGGCAGGTCCTGTGGTCTGAAGCATCCAGCCTCGGAAGCTGAGATC  
 CAGCCACAGACCCAGGTCACTTCTGTGCCACATTGATGGGCACCCTCGGCCACCTACCAATGGTTCC  
 GAGATGGGACCCCTTTCTGATGGTCAAGCAACACAGTCAGCAGCAAGGAGCGGAACCTGACGCT  
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 GAGCCCAGCGTGTGGTGGGAGCACGCGGGAGTCCGGCTGCCACCCATGGCAGGGTCTACCAGAAGGGCC  
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 ACGGGCCGAGGGCCAGATTTCGTGCCATGTCCAGCTCACTGTGGCAGTTTTTATCACCTTCAAAGTGGA  
 ACCAGAGCGTACGACTGTGTACCAGGGCCACAGCCCTACTGCAGTGCAGGGCCAGGGGGACCCCAAG  
 CCGCTGATTCAGTGAAAGGCAAGGACCGCATCTGGACCCACCAAGCTGGGACCCAGGATGCACATCT  
 TCCAGAATGGCTCCCTGGTATCCATGACGTGGCCCTGAGGACTCAGGCCGCTACACCTGCATTGCAGG  
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 GCAGAGATCCAAGAAGAAGTGGCCTTGACCAGCTTGGGCTCCGGCCCCGGGCCACCAACAACGCCACA  
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 AGCCTGCAGAGCAAGGATGAGCAGCAGCAGCTGGACTTCCGGAGGGAGTTGGAGATGTTTGGGAAGCTGA  
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 CGCTGGATGTCCCCGAGGCCATCCTGGAGGGTGAATCTCTACCAAGTCTGATGTCTGGCCTTCGGTG  
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 AGATTTGCAGGCTGGGAAGGCTAGACTTCTCAGCCCAGGGCTGCCCTTCCAACTCTATCGGCTGATG  
 CAGCGCTGCTGGGCCCTCAGCCCAAGGACCGGCCCTCCTCAGTGAAGTGGCAGCGCCCTGGGAGACA  
 GCACCGTGGACAGCAAGCCG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG220322 representing NM\_152881  
Red=Cloning site Green=Tags(s)

MGAARGSPARPRRLPLL SVLLLPLLLGGTQTAIVFIKQPSSQDALQGRRALLRCEVEAPGPVHVYWLLDGA  
PVQDTERRFAQSSLSFAAVDRLQDSGTFQCVARDDVTGEEARSANASFNKWEAGPVVLKHPASEAEI  
QPQTQVTLRCHIDGHPRTYQWFRDGTPLSDGQSNHTVSSKERNLTLRPAGPEHSGLYSCCAHSFQGAC  
SSQNF TLSIADESFARVVLAPQDVVVARYEEMFHCQFSAQPPSLQWLFEDETPITNRSRPPHLRRATV  
FANGSLLL TQVRPRNAGIYRCIGQGQRGPP IILEATLHLAEIEDMPLFEPRVFTAGSEERVTC LPPKGLP  
EPSVWWEHAGVRLPPTHGRVYQKGHELVLANIAESDAGVYTCHAAANLAGQRRQDVNITVANGSSLPWVTD  
NAGTLHFARVTRDDAGNYTCIASNGPQGQIRAHVQLTVAVFITFKVEPERTT VYQGH TALLQCEAQGDPK  
PLIQWKGKDRILDPTKLGPRMHIFQNGSLVIHDVAPEDSGRYTCIAGNSCNKHT EAPLYVVDKPVPEES  
EGPGSPPPYKMIQTIIGLSVGA AVAYIIAVLGLMFYCKRCKAKRLQKQPEGEEPEMECLNGGPLQNGQPS  
AEIQEEVALTSLGSGPAATNKRHSTSDKMHFPRSSLQPIITLTKSEFGEVFLAKAQGLEEGVAETLVLVK  
SLQSKDEQQQLDFRRELEMFGLNHNANVRLGLCREAEPHYMVLEYVDLGD LKQFLRISKSKDEKLKSQ  
PLSTKQKVALCTQVALGMEHL SNNRFVHKDLAARNCLVSAQRQVKV SALGLSKDVYNSEYHFRQAWVPL  
RWSPEATILEGDFSTKSDVWAFGLMWVEVFTHGEMPHGGQADDEVLADLQAGKARLPQPEGCP SKLYRML  
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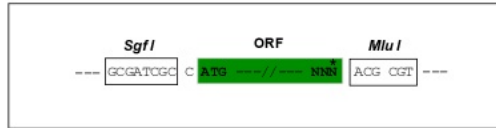
TRTRPLE - GFP Tag - V

**Restriction Sites:**

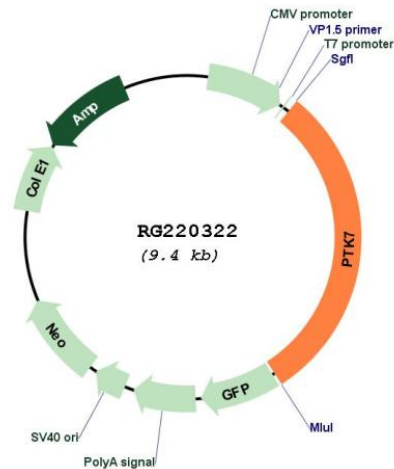
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



		Kozac			
		Consensus			
<i>EcoR I</i>	<i>BamH I Kpn I</i>	RBS	<i>Sgf I</i>	<i>Asc I</i>	
CTATAGGGCGGCGGAATTCGTGCGACTCGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGGCCAGATCT					
<i>Hind III</i>	<i>Nhe I Rsr II</i>	<i>Mlu I</i>	<i>Not I</i>	<i>Xho I</i>	GFP Tag
CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - - -					
T R T R P L E M E S D - - -					
		<i>Pme I</i>	<i>Fse I</i>		
- - - GAA GAA AGA GTT TAA ACGGCCGCCCGGAGCT					
- - E E R V Stop					

**Plasmid Map:**


**ACCN:** NM\_152881

**ORF Size:** 2820 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\\_152881.4](#)

**RefSeq Size:** 3859 bp

**RefSeq ORF:** 2823 bp

**Locus ID:** 5754

**UniProt ID:** [Q13308](#)

**Cytogenetics:** 6p21.1

**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]