

Product datasheet for **RC600063**

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:	DDK-His
Symbol:	CCK4
Synonyms:	CCK-4; CCK4
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RC600063 representing leader sequence plus the extracellular domain region of NM_002821

Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCTGGTACCGAGGAGATCCGCCCGCCG
CGATCGCC

ATGGGAGCTGCGCGGGGATCCCCGGCCAGACCCCGCCGGTTGCCTCTGCTCAGCGTCCTGTCTGCGCCG
TGCTGGGCGGTACCCAGACAGCCATTGTCTTCATCAAGCAGCCGTCCTCCAGGATGCACTGCAGGGGCG
CCGGGCGCTGTTGCTGTGAGGTTGAGGCTCCGGGCCGGTACATGTGTACTGGCTGCTCGATGGGGCC
CCTGTCCAGGACCGGAGCGGCTTTCCGCCAGGGCAGCAGCCTGAGCTTTGCAGCTGTGGACCGGCTGC
AGGACTCTGGCACCTTCCAGTGTGTGGCTCGGGATGATGTCACTGGAGAAGAAGCCCGCAGTGCCAAACGC
CTCCTTCAACATCAAATGGATTGAGGCAGTCTGTGGTCTGAAGCATCCAGCCTCGGAAGCTGAGATC
CAGCCACAGACCAGGTCACTTCTGTTGCCACATTGATGGGCACCCTCGGCCACCTACCAATGGTTCC
GAGATGGGACCCCTTTCTGATGGTCAAGCAACCACAGTCAAGCAGCAAGGAGCGGAACCTGACGCT
CCGGCCAGCTGGTCTGAGCATAGTGGGCTGATTCTCTGCTGCGCCACAGTGTCTTTGGCCAGGCTTGC
AGCAGCCAGAACTTACCTTGTGATGATGAAAGCTTTGCCAGGGTGGTGTGGCACCCAGGACG
TGGTAGTAGCGAGGTATGAGGAGGCCATGTTCCATTGCCAGTTCTCAGCCAGCCACCCCGAGCCTGCA
GTGGCTCTTTGAGGATGAGACTCCCATCACTAACCAGCAGTCCGCCACACCTCCGAGAGCCACAGTG
TTTGCCAAACGGGTCTCTGCTGCTGACCCAGGTCGGCCACGCAATGCAGGGATCTACCGTGCATTGGCC
AGGGGCAGAGGGGCCACCCATCATCTGGAAGCCACACTTACCTAGCAGAGATTGAAGACATGCCGCT
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GAGCCACGCGTGTGGTGGGAGCACGCGGGAGTCCGGCTGCCACCCATGGCAGGGTCTACCAGAAGGGCC
ACGAGCTGGTGTGGCCAAATATTGCTGAAAGTGATGCTGGTGTCTACACCTGCCACGCGGCCAACCTGGC
TGGTCAGCGGAGACAGGATGTCAACATCACTGTGGCCACTGTGCCCTCCTGGCTGAAGAAGCCCAAGAC
AGCCAGCTGGAGGAGGGCAAACCCGGCTACTTGGATTGCCTGACCCAGGCCACACCAAAACCTACAGTTG
TCTGGTACAGAAACCAGATGCTCATCTCAGAGGACTCACGGTTCGAGGTCTTCAAGAATGGGACCTTGC
CATCAACAGCGTGGAGGTGTATGATGGGACATGGTACCCTTGTATGAGCAGCACCCAGCCGGCAGCATC
GAGGCGCAAGCCCGTGTCCAAGTGTGAAAAGCTCAAGTTCACACCACCACCCAGCCACAGCAGTGCA
TGGAGTTTGACAAGGAGGCCACGGTGCCTGTTACGCCACAGGCCGAGAGAAGCCCACTATTAAGTGGGA
ACGGGCAGATGGGAGCAGCCTCCAGAGTGGGTGACAGACAACGCTGGGACCCTGCATTTTGCCCGGGTG
ACTCGAGATGACGCTGGCAACTACACTTGCATTGCCTCCAACGGGCCGAGGGCCAGATTGCTGCCCATG
TCCAGCTCACTGTGGCAGTTTTTATCACCTTCAAAGTGAACAGAGCGTACGACTGTGTACCAGGGCCA
CACAGCCCTACTGCAGTGCAGGGCCAGGGGGACCCCAAGCCGCTGATTGAGTGGAAAGGCAAGGACCGC
ATCCTGGACCCCAAGCTGGGACCCAGGATGCACATCTCCAGAATGGCTCCCTGGTGTCCATGACG
TGGCCCTGAGGACTCAGGCCGCTACACCTGCATTGCAGGCAACAGCTGCAACATCAAGCACACGGAGGC
CCCCCTATGTCGTGGACAAGCCTGTGCCGAGGAGTCCGAGGGCCCTGGCAGCCCTCCCCCTACAAG
ATGATCCAGACC

ACGCGTTCAGGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATTAAATGAGATC
TGGTACCGATATCAAGCTTGTGACTCTAGA

Protein Sequence: >RC600063 representing signal peptide plus the extracellular domain region of NM_002821
Red=Cloning sites Green= DDK and 6XHIS Tags

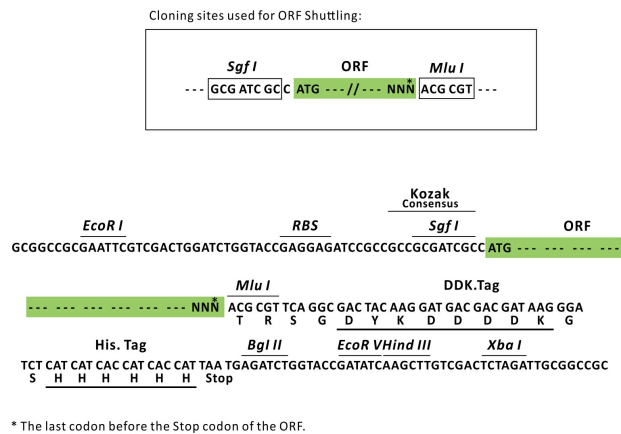
MGAARGSPARPRRLPLLSVLLLPLLGGTQTAIVFIKQPSSQDALQGRRALLRCEVEAPGPVHVYWLDDGA
 PVQDTERRFAQGSLSFAAVDRLQDSGTFQCVARDDVTGEEARSANASFNKIEWIEAGPVVLKHPASEAEI
 QPQTQVTLRCHIDGHRPTYQWFRDGTPLSDGQSNHTVSSKERNLTLRPAPEHSGLYSCAHSFAFGQAC
 SSQNFTLIADESFARVVLAPQDVVARYEEMFHCQFSAQPPPSLQWLFEDETPITNRSRPPHLRRATV
 FANGSLLLQVVRPRNAGIYRCIGQGQRGPPPIILEATLHLAEIEDMPLFEPVFTAGSEERTVCLPPKGLP
 EPSVWWEHAGVRLPTHGRVYQKGHELVLANIAESDAGVYTCHAAANLAGQRRQDVNITVATVPSWLKPKQD
 SQLEEGKPGYLDCLTQATPKPTVWYRNQMLISEDSEVFKNGTLRINSVEVYDGTWYRCSSTPAGSI
 EAQARVQVLEKLFKTPPPQPPQCMFDEKATVPCSATGREKPTIKWERADGSSLEPWTDNAGTLHFARV
 TRDDAGNYTCIASNGPQGIQRAHVQLTVAVFITFKVEPERTTVYQGHALLQCEAQGDPKPLIQWKGD
 ILDPTKLGPRMHIFQNGSLVIHDVAPEDSGRYTICIAGNSCNIKHTEAPLYVVDKVPPEESEGPGSPPPYK
 MIQT

TRSGTRSGDYKDDDDKGSHHHHHH

Chromatograms: https://cdn.origene.com/chromatograms/mk8117_h02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002821

ORF Size: 2112 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 extra cellular domain of the protein 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:	<ol style="list-style-type: none">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_002821.4, NP_002812.2</u>
RefSeq Size:	4273 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
MW:	77.7 kDa
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]