

## Product datasheet for SC118391

### CCK4 (PTK7) (NM\_002821) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCK4 (PTK7) (NM_002821) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCK4
Synonyms:	CCK-4; CCK4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_002821 edited  
 ATGGGAGCTGCGCGGGGATCCCCGGCCAGACCCCGCGTTGCCCTGCTCAGCGTCCTG  
 CTGCTGCCGCTGCTGGGCGGTACCCAGACAGCCATTGTCTTCATCAAGCAGCCGCTCTCC  
 CAGGATGCACTGCAGGGGCGCCGGGCGCTGCTTCGCTGTGAGGTTGAGGCTCCGGGCCCG  
 GTACATGTGTAAGTGGCTGCTCGATGGGGCCCTGTCCAGGACACGGAGCGCGTTTCGCC  
 CAGGGCAGCAGCCTGAGCTTTGCAGCTGTGGACCGGCTGCAGGACTCTGGCACCTCCAG  
 TGTGTGGCTCGGGATGATGCTCACTGGAGAAGAAGCCCGCAGTGCCAACGCCTCCTTCAAC  
 ATCAAATGGATTGAGGCAGGTCCTGTGGTCTGAAGCATCCAGCCTCGGAAGCTGAGATC  
 CAGCCACAGACCCAGGTCACACTTCGTTGCCACATTGATGGGCACCCTCGGCCACCTAC  
 CAATGGTTCGAGATGGGACCCCTTTCTGATGGTCAGAGCAACCACACAGTCAGCAGC  
 AAGGAGCGGAACCTGACGCTCCGGCCAGCTGGTCTGAGCATAGTGGGCTGTATTCTGCT  
 TGCGCCACAGTCTTTTGGCCAGGCTTGACAGCAGCCAGAACTTACCTTGAGCATTGCT  
 GATGAAAGCTTTGCCAGGGTGGTCTGGCACCCAGGACGTGGTGTAGTAGCGAGGTATGAG  
 GAGGCCATGTTCCATTGCCAGTTCTCAGCCAGCCACCCCGAGCCTGCAGTGGCTCTTT  
 GAGGATGAGACTCCCATCACTAACCAGTCGCCCCCACACCTCCGAGAGCCACAGTG  
 TTTGCCAACGGTCTCTGCTGCTGACCCAGGTCGGCCACGCAATGCAGGGATCTACCGC  
 TGCATTGGCCAGGGGACAGGGGGCCACCCATCATCTGGAAGCCACACTTACCTAGCA  
 GAGATTGAAGACATGCCGCTATTTGAGCCACGGGTGTTTACAGCTGGCAGCGAGGAGCGT  
 GTGACCTGCCTTCCCCCAAGGGTCTGCCAGAGCCAGCGTGTGGTGGGAGCACCGGGGA  
 GTCGGGCTGCCACCCATGGCAGGGTCTACCAGAAGGGCCACGAGCTGGTGTGGCCAAT  
 ATTGCTGAAAGTGTGCTGGTGTCTACACCTGCCACGCGGCAACCTGGTGGTCAAGCGG  
 AGACAGGATGTCAACATCACTGTGGCCACTGTGCCCTCCTGGCTGAAGAAGCCCCAAGAC  
 AGCCAGCTGGAGGAGGGCAAACCCGGCTACTTGGATTGCCTGACCCAGGCCACACAAAA  
 CCTACAGTTGTCTGGTACAGAAACCAGATGCTCATCTCAGAGGACTCACGGTTCGAGGTC  
 TTCAAGAATGGGACCTTGCATCAACAGCGTGGAGGTGTATGATGGGACATGGTACCGT  
 TGTATGAGCAGCACCCAGCCGGCAGCATCGAGGCGCAAGCCCGTGTCCAAGTGTGGAA  
 AAGCTCAAGTTCACACCACCACCCAGCCACAGCAGTGCATGGAGTTTGACAAGGAGGCC



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ACGGTGCCTGTTCAGCCACAGGCCGAGAGAAGCCCACTATTAAGTGGGAACGGGCAGAT  
 GGGAGCAGCCTCCAGAGTGGGTGACAGACAACGCTGGGACCCTGCATTTTGGCCGGGTG  
 ACTCGAGATGACGCTGGCAACTACACTTGCATTGCCTCCAACGGGCCGACGGCCAGATT  
 CGTGCCCATGTCCAGCTCACTGTGGCAGTTTTTATCACCTTCAAAGTGAACAGAGCGT  
 ACGACTGTGTACCAGGGCCACACAGCCCTACTGCAGTGCAGGGCCAGGGGGACCCCAAG  
 CCGTGATTTCAGTGAAAGGCAAGGACCGCATCCTGGACCCCAACAGCTGGGACCCAGG  
 ATGCACACTTCCAGAAGTGGCTCCCTGGTGATCCATGACGTGGCCCTGAGGACTCAGGC  
 CGCTACACCTGCATTGCAGGCAACAGCTGCAACATCAAGCACACGGAGGCCCCCTCTAT  
 GTCGTGGACAAGCCTGTGCCGGAGGAGTCGGAGGGCCCTGGCAGCCCTCCCCCTACAAG  
 ATGATCCAGACATTGGGTTGTCCGGTGGGTGCCGCTGTGGCTACATCATTGCCGTGCTG  
 GGCCTCATGTTCTACTGCAAGAAGCGCTGCAAAGCCAAGCGGCTGCAGAAGCAGCCCGAG  
 GGGCAGGAGCCAGAGATGGAATGCCTCAACGGTGGGCCTTTCAGAACGGGCAGCCCTCA  
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 CTCTGGGGCTGTGCCGGGAGGCTGAGCCCCACTACATGGTGCTGGAATATGTGGATCTG  
 GGAGACCTCAAGCAGTTCCTGAGGATTTCCAAGAGCAAGGATGAAAAATTGAAGTCACAG  
 CCCCTCAGCACCAGCAGAAGGTGGCCCTATGCACCCAGGTAGCCCTGGGCATGGAGCAC  
 CTGTCCAACAACCGCTTTGTGCATAAGGACTTGGCTGCGCGTAACTGCCTGGTCAGTGCC  
 CAGAGACAAGTGAAGGTGTGCCCCTGGCCCTCAGCAAGGATGTGTACAACAGTGAGTAC  
 TACCATTCCGCCAGGCCTGGGTGCCGCTGCGCTGGATGTCCCCGAGGCCATCCTGGAG  
 GGTGACTTCTCTACCAAGTCTGATGTCTGGGCCTTCGGTGTGCTGATGTGGGAAGTGTTT  
 ACACATGGAGAGATGCCCATGGTGGGCAGGCAGATGATGAAGTACTGGCAGATTTGCAG  
 GCTGGGAAGGCTAGACTTCTCAGCCCCAGGGCTGCCCTTCCAACTCTATCGGCTGATG  
 CAGCGCTGCTGGGCCCTCAGCCCCAAGGACCGGCCCTCCTCAGTGAGATTGCCAGCGCC  
 CTGGGAGACAGCACCGTGGACAGCAAGCCGTGA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002821 unedited  
 NNNNGGGCNAANNNTTCTCCACNNNGGTTTCAGAATTGTAACGATTATATAGGCG  
 GCCGCGNAATTTCGACAGGCCGCGCTCCGGTGCCTCCGCTCCTGTGCCCGCCGCGGAG  
 CGCAGTCTGCGCGCCCGCGTGCCTCAGCTCCTTTTCTGAGCCCGCCGCGATGGGA  
 GCTGCGCGGGGATCCCCGGCCAGACCCCGCGGTTGCCTCTGCTCAGCGTCTGTGCTG  
 CCGCTGCTGGGCGGTACCCAGACAGCCATTGTCTTCAAGCAGCCGCTCCTCCAGGAT  
 GCACTGCAGGGGCGCCGGCGCTGCTTCGCTGTGAGGTTGAGGCTCCGGGCCGTTACAT  
 GTGTAAGTGGTGCATGGGGCCCTGTCCAGGACACGGAGCGGCTTTCGCCAGGGC  
 AGCAGCCTGAGCTTTCAGCTGTGGACCGCTGCAGGACTCTGGCACCTCCAGTGTGTG  
 GCTCGGGATGATGCACTGGAGAAGAAGCCCGCAGTGCCAACGCCTCCTCAACATCAAA  
 TGGATTGAGGCAGGTCCTGTGGTCTGAAGCATCCAGCCTCGGAAGCTGAGATCCAGCCA  
 CAGACCCAGGTACACTTCGTTGCCACATTGATGGGCACCCTCGGCCACCTACCAATGG  
 TTCCGAGATGGGACCCCTTTCTGATGGTCAGAGGCACCACACAGTCAGCAGCAAAGAG  
 CGGAACCTGACGCTNCGGCCAGCTGGTCTGAGCATAGTGGGCTGTATTCTGCTGCGC  
 CCACAGTGCCCTTGGCCAGGCTGCAGCAGCCAGAACTTACCTTGAGCATTGCTGATGA  
 AAGCTTGGCAGGTTGGTGTGGCACCCAGACCTGTTANTACCGAGGTATGAGGAGGCCT  
 GTTCCATTGGCAGTTTTTCAGCCAGCCACCCCGACCTGCATGGGCTCTTTTGGGATGAC  
 ACTCCATCATTAACCGAG

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_002821 unedited NNAAAATACTGTGGACCGCAGCCGCAATCTAGGATCGAGTTTTTTTTCTTTTTTTTTTAA AAAAGCTTATTTATTGAGAGCAGCGAGTGTAACAAACAAAAACAAAAACAAAAACAAAA CAAACAAAAACGACAACAATAAAAGTGTGGGGTAAGGATGGCCACCCTCCTCATCTCC AGGGCCACCCCTACCTCCCATGCCACCCACCCACGCTGTATTACATATAAAAGCCG CCCGTGGTGCATACAAAAAGGGCGGTTTATATAGTGTCAAAGCTCCTGAAAACCTCTTC ATCTGCCAGGCACTTAGGATGAGGAAAGGAGAAAAGGGTGGGGAAGACGTGGGTCTGGGT CAGTGTGCACAAGCCAGAGTGGGGAGGACTCACTTGCTGTCTCTATAATCCTGGTC TAGACCCCAAGTGGGACCAGTGGGCAAGAGACTCATTAAACCCTGTGTGCCCAGAAGT GAGAATATTAAGGAACATCCACAAACCCAGCTCATCCCAAGCCTAGCCCTCCCAGGCA AAGTTGGCAGATGAGTGGCAGAGTTGGACCCGGTCAAGGGGAGAAGTTGAAGGCCAGAAA TTGGGGTTACCTGTGGCACCCACACTGTCCTGATAGAGGAAGAGGTGGCAGGGGAACT GCCCAGCTCAAAGCCCTAGTCGCCAGTTTGGGTCCAAGTCAGCCTCCCAAAGGATGAGG GTGAGGAAGAGGAGGAAAGGCCAGGCCCTGCTCAGACCTCAGCAATGCCTGTTGACTAG GGCAGGGGCTCNAGGCCAGGAGGACAGGGATCTTGCCCATCATGCTGTGAGCTTCCCT CTAGAGATGTCTCCCTGCCAGGCCATCCTGAGCGGGTCCCTCCTCACGGCTTGCTG TCCACGGTGTCTCCAGGCGCTGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002821
<b>Insert Size:</b>	3213 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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><a href="#">NM_002821.3</a></u> , <u><a href="#">NP_002812.2</a></u>
<b>RefSeq Size:</b>	4273 bp
<b>RefSeq ORF:</b>	3213 bp
<b>Locus ID:</b>	5754
<b>UniProt ID:</b>	<u><a href="#">Q13308</a></u>
<b>Cytogenetics:</b>	6p21.1
<b>Domains:</b>	pkinase, TyrKc, S_TKc, ig, IGc2, IG
<b>Protein Families:</b>	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]

Transcript Variant: This variant (PTK7-1) represents the longest transcript and encodes isoform a.