

## Product datasheet for **SC327310**

### TNIK (NM\_001161560) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TNIK (NM_001161560) Human Untagged Clone
Tag:	Tag Free
Symbol:	TNIK
Synonyms:	MRT54
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001161560, the custom clone sequence may differ by one or more nucleotides

```
ATGGCGAGCGACTCCCCGGCTCGAAGCCTGGATGAAATAGATCTCTCGGCTCTGAGGGAC
CCCGCAGGGATCTTTGAATTGGTGGAACTTGTTGGAAATGGAACATACGGGCAAGTTTAT
AAGGGTCGTCATGTCAAACGGGCCAGCTTGCAGCCATCAAGGTTATGGATGTCACAGGG
GATGAAGAGGAAGAAATCAAACAAGAAATTAACATGTTGAAGAAATATTCTCATCACCGG
AATATTGTACTACTATGTTGCTTTTATCAAAAAGAACCACCAGGCATGGATGACCAA
CTTTGGTTGGTATGGAGTTTTGTGGTGGCTCTGTCACCGACCTGATCAAGAACACA
AAAGGTAACACGTTGAAAGAGGAGTGGATTGCATACATCTGCAGGGAAATCTTACGGGGG
CTGAGTCACCTGCACCAGCATAAAGTGATTCATCGAGATATTAAGGGCAAAATGTCTTG
CTGACTGAAAATGCAGAAGTAAACTAGTGGACTTTGGAGTCAGTGCTCAGCTTGATCGA
ACAGTGGGCAGGAGGAATACTTTTATTGGAACCTACTGGATGGCACCAGAAGTTATT
GCCTGTGATGAAAACCCAGATGCCACATATGATTTCAAGAGTGACTTGTGGTCTTTGGGT
ATCACCGCCATTGAAATGGCAGAAGGTGCTCCCCCTCTCTGTGACATGCACCCCATGAGA
GCTCTCTTCTCATCCCCGGAACCCAGCGCCTCGGCTGAAGTCTAAGAAGTGGTCAAAA
AAATCCAGTCATTTATTGAGAGCTGCTTGGTAAAGAATCACAGCCAGCGACCAGCAACA
GAACAATTGATGAAGCATCCATTTATACGAGACCAACCTAATGAGCGACAGGTCCGCATT
CAACTCAAGGACCATATTGATAGAACAAGAAGAAGCGAGGAGAAAAAGATGAGACAGAG
TATGAGTACAGTGGAAGTGAGGAAGAAGAGGAGGAGAATGACTCAGGAGAGCCAGCTCC
ATCCTGAATCTGCCAGGGGAGTCGACGCTGCGGAGGGACTTTCTGAGGCTGCAGCTGGCC
AACAAAGGAGCGTTCTGAGGCCCTACGGAGGCAGCAGCTGGAGCAGCAGCAGCGGGAGAAT
GAGGAGCACAAGCGGCAGCTGCTGGCCAGCGTCAGAAGCGCATCGAGGAGCAGAAAAGAG
CAGAGGCGGCGGCTGGAGGAGCAACAAGGCGAGAGAAGGAGCTGCGGAAGCAGCAGGAG
AGGAGCAGCGCCGGCACTATGAGGAGCAGATGCGCCGGGAGGAGGAGGAGGCGGTGCG
GAGCATGAACAGGAATACATCAGGCGACAGTTAGAGGAGGAGCAGAGACAGTTAGAGATC
TTGCAGCAGCAGCTACTGCATGAACAAGCTCTACTTCTGGAATATAAGCGCAAACAATTG
GAAGAACAGAGACAAGCAGAAAGACTGCAGAGGCAGCTAAAGCAAGAAAGAGACTACTTA
```



[View online »](#)

GTTTCCTTCAGCATCAGCGGCAGGAGCAGAGGCCTGTGGAGAAGAAGCCACTGTACCAT  
TACAAAGAAGGAATGAGTCCTAGTGAGAAGCCAGCATGGGCCAAGGAGGTAGAAGAACGG  
TCAAGGCTCAACCGGCAAAGTTCCTGCCATGCCTCACAAAGTTGCCAACAGGATATCT  
GACCCCAACCTGCCCCCAAGGTCGGAGTCTTCAGCATTAGTGGAGTTCAGCCTGCTCGA  
ACACCCCATGCTCAGACCAGTCGATCCCAGATCCCACATCTGGTAGCTGTAAATCC  
CAGGGACTGCCTTGACCGCTCCAGTCAGTGCACGAGCAGCCACAAGGGCCTCTCT  
GGGTTTCAGGAGGCTCTGAACGTGACCTCCCACCGCTGGAGATGCCACGCCAGAATCA  
GATCCCACTCGGAAAATCCTCCTCTCCCACTCGCATTGAAAAGTTTGACCGAAGCTCT  
TGTTTACGACAGGAAGAAGCATTCCACCAAAGGTGCCTCAAAGAACAATTCTATATCC  
CCAGCATTAGCCAGAAAGAATTCTCCTGGGAATGGTAGTCTCTGGGACCCAGACTAGGA  
TCTCAACCCATCAGAGCAAGCAACCCTGATCTCCGGAGAAGTGGAGCCATCTGGAGAGC  
CCCTTGACAGAGGACCAGCAGTGGCAGTTCCTCCAGCTCCAGCACCCCTAGCTCCCAGCCC  
AGCTCCCAAGGAGGCTCCAGCCTGGATCACAAGCAGGATCCAGTGAACGCACCAGAGTT  
CGAGCCAAACAGTAAGTCAGAAGGATCACCTGTGCTCCCCATGAGCCTGCCAAGGTGAAA  
CCAGAAGAATCCAGGGACATTACCCGGCCAGTCGACCAGCTGATCTGACGGCATTAGCC  
AAAGAACTAAGAGAACTCCGGATTGAAGAAACAACCCGCCAATGAAGAAGGTGACTGAT  
TACTCCTCCTCCAGTGAGGAGTCAGAAAGTAGCGAGGAAGAGGAGGAAGATGGAGAGAGC  
GAGACCCATGATGGGACAGTGGCTGTGACGACATACCCAGACTGATACCAACAGGAGCT  
CCAGGCAGCAACGAGCAGTACAATGTGGGAATGGTGGGGACGCATGGGCTGGAGACCTCT  
CATGCGGACAGTTTCAGCGGCAGTATTTCAAGAGAAGGAACCTTGATGATTAGAGAGACG  
TCTGGAGAGAAGAAGCGATCTGGCCACAGTGACAGCAATGGCTTTGCTGGCCACATCAAC  
CTCCCTGACCTGGTGCAGCAGAGCCATTCTCCAGCTGGAACCCCGACTGAGGGACTGGGG  
CGCGTCAACCCATTCCAGGAGATGGACTCTGGGACTGAATATGGCATGGGGAGCAGC  
ACCAAAGCCTCCTTACCCTTTGTGGACCCAGAGTATACCAGACTCTCCCACTGAT  
GAAGATGAAGAGGATGAGGAATCATCAGCCGAGCTCTGTTTACTAGCGAACTTCTTAGG  
CAAGAACAGGCCAAACTCAATGAAGCAAGAAAGATTTCCGGTGGTAAATGTAAACCCAACC  
AACATTCGGCCTCATAGCGACACACCAGAAATCAGAAAATACAAGAAACGATTCAACTCA  
GAAATACTTTGTGACGCTCTGTGGGGTGTAAACCTTCTGGTGGGGACTGAAAATGGCCTG  
ATGCTTTTGGACCGAAGTGGCAAGGCAAAGTCTATAATCTGATCAACCGGAGGCGATTT  
CAGCAGATGGATGTGCTAGAGGGACTGAATGTCCTTGTGACAATTCAGGAAAGAAGAAT  
AAGCTACGAGTTTACTATCTTTTATGGTTAAGAAACAGAATACTACATAATGACCCAGAA  
GTAGAAAAGAAACAAGGCTGGATCACTGTTGGGGACTTGAAGGCTGTATACATTATAAA  
GTTGTTAAATATGAAAGGATCAAATTTTTGGTGATTGCCTTAAAGAATGCTGTGGAAATA  
TATGCTTGGGCTCCTAAACCGTATCATAAATTCATGGCATTAAAGTCTTTTGCAGATCTC  
CAGCACAAGCCTCTGCTAGTTGATCTCACGGTAGAAGAAGGTCAAAGATTAAGGTTATT  
TTTGGTTCACACACTGGTTTCCATGTAATTGATGTTGATTGATTGAGGAACTCTTATGATATC  
TACATACCATCTCATATTCAGGGCAATATCACTCCTCATGCTATTGTCATCTTGCCTAAA  
ACAGATGGAATGGAATGCTTGTGTTGCTATGAGGATGAGGGGGTGTATGTAAACACCTAT  
GGCCGGATAACTAAGGATGTGGTCTCAATGGGGAGAAATGCCACGCTGTGGCCTAC  
ATTCATTCCAATCAGATAATGGGCTGGGCGAGAAAGCTATTGAGATCCGGTCAGTGAA  
ACAGGACATTTGGATGGAGTATTTATGCATAAGCGAGCTCAAAGGTTAAAGTTTCTATGT  
GAAAGAAATGATAAGGTATTTTTGCATCCGTGCGATCTGGAGGAAGTAGCCAAGTGTTT  
TTCATGACCCCAACAGAAATTCATGATGAAGTGG

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001161560

**OTI Disclaimer:**

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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001161560.1</a></u> , <u><a href="#">NP_001155032.1</a></u>
<b>RefSeq Size:</b>	5792 bp
<b>RefSeq ORF:</b>	4059 bp
<b>Locus ID:</b>	23043
<b>UniProt ID:</b>	<u><a href="#">Q9UKE5</a></u>
<b>Cytogenetics:</b>	3q26.2-q26.31
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	<p>Wnt signaling plays important roles in carcinogenesis and embryonic development. The protein encoded by this gene is a serine/threonine kinase that functions as an activator of the Wnt signaling pathway. Mutations in this gene are associated with an autosomal recessive form of cognitive disability. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2017]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the middle portion of the coding region compared to variant 1. This results in a shorter protein (isoform 2) compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>