

## Product datasheet for **SC112834**

### Tcl1 (TCL1A) (NM\_021966) Human Untagged Clone

#### Product data:

|                           |                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                               |
| Product Name:             | Tcl1 (TCL1A) (NM_021966) Human Untagged Clone                                                     |
| Tag:                      | Tag Free                                                                                          |
| Symbol:                   | Tcl1                                                                                              |
| Synonyms:                 | TCL1                                                                                              |
| Mammalian Cell Selection: | None                                                                                              |
| Vector:                   | <u>pCMV6-XL4</u>                                                                                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                                            |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_021966, the custom clone sequence may differ by one or more nucleotides |

ATGCCCAGTGCCCGACACTCGGGGAGGCAGTCACCGACCACCCGACCGCCTGTGGCCTGGGAGAAGT  
 TCGTGTATTTGGACGAGAAGCAGCACGCCTGGCTGCCCTTAACCATCGAGATAAAGGATAGGTTACAGTT  
 ACGGGTGCTCTTGCCTCGGGAAGACGTCGTCCTGGGGAGGCCTATGACCCCAACCAGATAGGCCCAAGC  
 CTGCTGCCTATCATGTGGCAGCTCTACCCTGATGGACGATACCGATCCTCAGACTCCAGTTTCTGGCGCT  
 TAGTGACCACATCAAGATTGACGGCGTGGAGGACATGCTTCTCGAGCTGCTGCCAGATGACTGA


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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_021966 unedited  
 TCAGAAATTTGTAATACGACTCACTATAGGGCGGCCCGCAATTCGCACGAGGAGAAGCA  
 GCACGCCTGGCTGCCCTTAACCATCGAGATAAAGGATAGGTTACAGTTACGGGTGCTCTT  
 GCGTCGGGAAGACGTCGCTCTGGGGAGGCCTATGACCCCCACCCAGATAGGCCCAAGCCT  
 GCTGCCTATCATGTGGCAGCTCTACCCTGATGGACGATACCGATCCTCAGACTCCAGTTT  
 CTGGCGCTTAGTGTACCACATCAAGATTGACGGCGTGGAGGACATGCTTCTCGAGCTGCT  
 GCCAGATGACTGATGTATGGTCTTGGCAGCACCTGTCTCCTTTACCCCCAGGGCCTGAGC  
 CTGGCCAGCCTACAATGGGGATGTTGTGTTTCTGTTACCTTCGTTTACTATGCCTGTGT  
 CTTCTCCACCACGCTGGGTCTGGGAGGAATGGACAGACAGAGGATGAGCTCTACCCAGG  
 GCCTGCAGGACCTGCCTGTAGCCCACTCTGCTCGCCTTAGCACTACCACTCCTGCCAAGG  
 AGGATTCCATTTGGCAGAGCTTCTTCCAGGTGCCAGCTATACCTGTGCCTCGGCTTTTC  
 TCAGCTGGATGATGGTCTTCAGCCTCTTCTGTCCCTTCTGTCCCTCACAGCACTAGTAT  
 TTCATGTTGCACCCCACTCAGCTCCGTGAACCTGTGAGAACACAGCCGATTCACCTGAG  
 CAGGACCTCTGAAACCTGGACCAGTGGTCTCACATGGTGTACGCTGCATGTAACAC  
 GCCTGNCAACGCTGCCTGCCGNTAACACGCCCTGCAACGCTGCCTGCCGTAACACGCC  
 TGCAACGCTGCCTGCCACACAGGTTACGTCAGCTCAGGNAAGGCTGAAGGNAGCCNT  
 NATCTGTGCTCAGGACTCAGAAGCCTNTGGNGTCAGTGGTCCACATNCCGGNACGCANN  
 CAGAGGGCANGCCNGCGAGNCCCTTGTGGNATGACCCTCAGAACCCTGCT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_021966 unedited  
 CGGTTTAGCTATGNNACCGCGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTAG  
 ATAACTATCTTGATTTAATCAATCATTACAAAAAGTATTCATGCCACATACAACCTTG  
 TAACACCCAGGTGCGTGACCATCTATAAAGGGGGGAAACCAACCTCTATCCCTTTTCC  
 ACGTGGGCAAGCAAGGGTCTGAGGGCTCATCCACAGGGCTCGCCGGCCTGGCCTCCTG  
 CTGCGTCCCGGATGTGGACCACTGACCCAGAGGCTTCTGAGTCTGAGCACAGATAAGG  
 GCTCCTTTAGGCCTTTCTTGAGCTGCACGTGAACCTGTGTGGGCAGGCAGCGTTTGCA  
 GGCGTGTTTACGGGCAGGCAGCGTTTGCAGGCGTGTTCACGGCAGGCAGCGTTTGCAAG  
 CGTGTTTACATGCAGGCGTAGCACCATGTGAGACCACTGGTCCAGGGTTTCAGAGTCTCT  
 GCTCAGGTGAATCGGCTGTGTTCTCACAGTTCACGGAGCTGAGTGGGTGTGCAACATGA  
 AATACTAGTGTGTGAGGGACAGAAAGGGACAGAAAGAGGCTGAAGACCATCATCCAGCTG  
 AGAAAAGCCGAGGCACAGGTATAGCTGGGCACCTGGAAGAAGCTTGCCAAATGGAATCC  
 TCCTTGGCACGAGTGGTANTGCTAAAGCGAGCAAGTGGGCTACAAGCAGGTCTCTGCAAG  
 CCCTGGGTAGAGCTCATCTCTGTCTGTGCAATTCCTTCCAGACCCCAACGTGGTGGAGAA  
 GACCCAGCCTAGTTAACCAAAAGTGACAGAAACCAACATTCCCCTTTGTTAGCTGGGCAG  
 CCTCAAGCCTGGGTGGAAAGGAAAAAGGGCTGCCCAAAACATACATAATTATATTGGCA  
 GAACTTGGGAGCATGGCCTC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_021966

**Insert Size:**

1250 bp

**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).

**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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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_021966.1, NP_068801.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>RefSeq Size:</b>           | 1324 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RefSeq ORF:</b>            | 345 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Locus ID:</b>              | 8115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>UniProt ID:</b>            | <u>P56279</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Cytogenetics:</b>          | 14q32.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Protein Families:</b>      | Druggable Genome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Summary:</b>          | <p>Overexpression of the TCL1 gene in humans has been implicated in the development of mature T cell leukemia, in which chromosomal rearrangements bring the TCL1 gene in close proximity to the T-cell antigen receptor (TCR)-alpha (MIM 186880) or TCR-beta (MIM 186930) regulatory elements (summarized by Virgilio et al., 1998 [PubMed 9520462]). In normal T cells TCL1 is expressed in CD4-/CD8- cells, but not in cells at later stages of differentiation. TCL1 functions as a coactivator of the cell survival kinase AKT (MIM 164730) (Laine et al., 2000 [PubMed 10983986]).[supplied by OMIM, Jul 2010]</p> <p>Transcript Variant: This variant (1) and variant 2 encode the same protein. 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> |