

## Product datasheet for **SC328641**

### TCN2 (NM\_001184726) Human Untagged Clone

#### Product data:

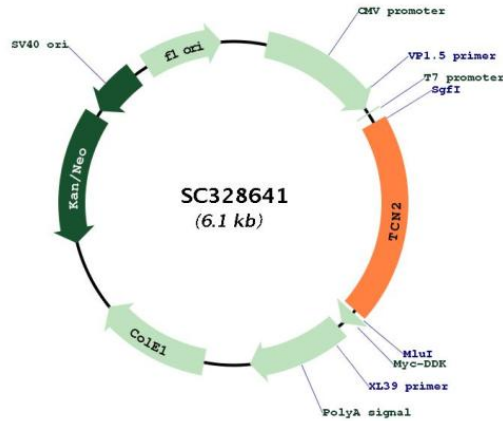
Product Type:	Expression Plasmids
Product Name:	TCN2 (NM_001184726) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCN2
Synonyms:	D22S676; D22S750; II; TC; TC-2; TC2; TC II; TCII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328641 representing NM_001184726. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGGCACCTTGGGGCCTTCTCTTCTTCTGGGGTCTGGGGCCCTCACTGAGATGTGTGAAATA
CCAGAGATGGACAGCCATCTGGTAGAGAAGTTGGGCCAGCACCTTACCTTGGATGGACCGCTTTCC
CTGGAGCACTTGAACCCAGCATCTATGTGGCCACGCTCCTCAGTCTGCAGGCTGGGACCAAGGAA
GACCTCTACCTGCACAGCCTCAAGCTTGGTTACCAGCAGTGCCTCCTAGGGTCTGCCTTCAGCGAGGAT
GACGGTGACTGCCAGGGCAAGCCTTCCATGGGCCAGCTGGCCCTCTACCTGCTCGCTCTCAGAGCCAAC
TGGCATGATCACAAGGGCCACCCACACTAGCTACTACCAGTATGGCCTGGGCATTCTGGCCCTGTGT
CTCCACCAGAAGCGGGTCCATGACAGCGTGGTGGACAACTTCTGTATGCTGTGGAACCTTCCACCAG
GGCCACCATTCGTGGACACAGCAGCCATGGCAGGCTTGGCATTACCTGTCTGAAGCGCTCAAACCTTC
AACCTGGTGGGAGACAACGGATCACCATGGCCATCAGAACAGTGCAGAGGAGATCTTGAAGGCCAG
ACCCCGAGGGGCCACTTTGGGAATGTCTACAGCACCCATTGGCATTACAGTTCCATGACTTCCCCC
ATGCGTGGGGCAGAACTGGGAACAGCATGTCTCAAGGCGAGGGTTGCTTGGTGGCCAGTCTGCAGGAT
GGAGCCTCCAGAATGCTCTCATGATTTCCAGCTGCTGCCCGTCTGAACCACAAGACCTACATTGAT
CTGATCTTCCAGACTGTCTGGCACCACGAGTCATGTTGGAACAGCTGCTGAGACCATTCTCAGACC
CAAGAGATCATCAGTGTACGCTGCAGGTGCTTAGTCTCTTGGCCCGTACAGACAGTCCATCTCTGTT
CTGGCCGGTCCACCGTGAAGATGTCTGAAGAAGGCCATGAGTTAGGAGATTACATATGAAACA
CAGGCCTCCTTGTGAGGCCCTACTTAACCTCCGTGATGGGAAAGCGCCGAGAAAGGGAGTTCTGG
CAGCTTCTCCGAGACCCCAACCCCACTGTTGCAAGGTATTGCTGACTACAGACCAAGGATGGAGAA
ACCATTGAGCTGAGGCTGGTTAGCTGGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI



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**Plasmid Map:**


**ACCN:** NM\_001184726

**Insert Size:** 1203 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).

**OTI Annotation:** 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.

**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\\_001184726.1](#)

**RefSeq Size:** 2006 bp

**RefSeq ORF:** 1203 bp

**Locus ID:** 6948

**UniProt ID:** [P20062](#)

**Cytogenetics:** 22q12.2

**Protein Families:** Druggable Genome, Secreted Protein

**MW:** 44.4 kDa

**Gene Summary:** This gene encodes a member of the vitamin B12-binding protein family. This family of proteins, alternatively referred to as R binders, is expressed in various tissues and secretions. This plasma protein binds cobalamin and mediates the transport of cobalamin into cells. This protein and other mammalian cobalamin-binding proteins, such as transcobalamin I and gastric intrinsic factor, may have evolved by duplication of a common ancestral gene. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]  
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' 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.