

Product datasheet for **RG200682**

TCN2 (NM_000355) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCN2 (NM_000355) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TCN2
Synonyms:	D22S676; D22S750; II; TC; TC-2; TC2; TC II; TCII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200682 representing NM_000355 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGCACCTTGGGGCCTTCTCTTCTTCTGGGGTCTGGGGCCCTCACTGAGATGTGTGAAATAC
CAGAGATGGACAGCCATCTGGTAGAGAAGTTGGGCCAGCACCTTACCTTGGATGGACCGGCTTCCCT
GGAGCACTGAACCCAGCATCTATGTGGGCTACGCCTCCTCAGTCTGCAGGCTGGACCAAGGAAGAC
CTCTACCTGCACAGCCTCAAGCTTGGTTACCAGCAGTGCCTCCTAGGGTCTGCCTCAGCGAGGATGACG
GTGACTGCCAGGGCAAGCCTTCCATGGGCCAGCTGGCCCTCTACCTGCTCGCTCTCAGAGCCAAGTGA
GTTTGTCAAGGGCCACAAGGGGGACAGGCTGGTCTCACAGCTCAAATGGTTCTGGAGGATGAGAAGAGA
GCCATTGGGCATGATCACAAGGGCCACCCCACTAGCTACTACCAGTATGGCCTGGGCATTCTGGCCC
TGTGTCTCCACAGAAGCGGGTCCATGACAGCGTGGTGGACAACTTCTGTATGTGTGGAACCTTTCCA
CCAGGGCCACCATTTCTGTGGACACAGCAGCCATGGCAGGCTTGGCATTACCTGTCTGAAGCGCTCAAAC
TTCAACCCTGGTCGGAGACAACGGATCACCATGGCCATCAGAACAGTGAAGAGGAGATCTTGAAGGCC
AGACCCCGAGGGCCACTTTGGGAATGTCTACAGCACCCATTGGCATTACAGTTCTCATGACTTCCCC
CATGCGTGGGGCAGAAGTGGGAACAGCATGTCTCAAGGCGAGGGTTGCTTGTGGCCAGTCTGCAGGAT
GGAGCCTTCCAGAATGCTCATGATTTCCAGCTGCTGCCGTTCTGAACCACAAGACCTACATTTGATC
TGATCTTCCAGACTGTCTGGCACCAGAGTCATGTTGGAACAGCTGCTGAGACCATTCCTCAGACCCA
AGAGATCATCAGTGTACGCTGCAGGTGCTTAGTCTCTTGGCCGCTACAGACAGTCCATCTCTGTTCTG
GCCGGTCCACCGTGAAGATGTCTGAAGAAGGCCCATGAGTTAGGAGGATTCACATATGAAACACAGG
CCTCCTTGTGAGGCCCTACTTAACCTCCGTGATGGGAAAGCGCCGGAGAAAGGGAGTTCTGGCAGCT
TCTCCGAGACCCCAACCCCACTGTTGCAAGGTATTGCTGACTACAGACCCAAGGATGGAGAAACCATT
GAGCTGAGGCTGGTTAGCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200682 representing NM_000355
Red=Cloning site Green=Tags(s)

MRHLGAFLLGVLGALTEMCEIPEMDSHLVEKLGQHLLPMDRLSLEHLNPSIYVGLRSSLQAGTKED
 LYLHSLKLGYYQCLLGSFAFSEDDGDCQGKPSMGQLALYLLALRANCEFVRGHKGDRLVSQLKWFLEDEKR
 AIGHDHKGHPHTSYYQYGLGILALCLHQKRVHDSVVDKLLYAVEPFHQGHHSVDTAAMAGLAFTCLKRSN
 FNPGRQRITMAIRTVQEEILKAQTPEGHFGNVYSTPLALQFLMTSPMRGAELGTACLKARVALLASLQD
 GAFQNALMISQLLPVLNHKTYIDLIFPDCLAPRVMLEPAAETIPQTQEII SVTLQVLSLLPPYRQISVL
 AGSTVEDVLKKAHELGGFTYETQASLSGPYLTSVMGAAGEREFWQLLRDPNTPLLQGIADYRPKDGETI
 ELRLVSW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000355

ORF Size: 1281 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 complete ORF 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:

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_000355.2](#), [NP_000346.2](#)

RefSeq Size: 1987 bp

RefSeq ORF: 1284 bp

Locus ID: 6948

UniProt ID: [P20062](#)

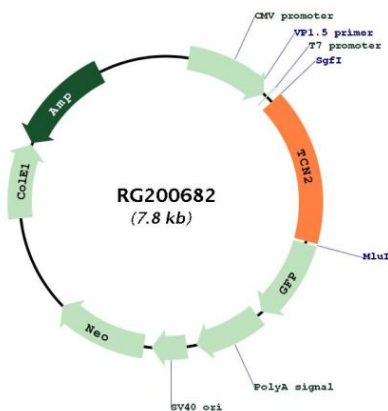
Cytogenetics: 22q12.2

Domains: Cobalamin_bind

Protein Families: Druggable Genome, Secreted Protein

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]

Product images:



Circular map for RG200682