

Product datasheet for **RG230003**

TCN2 (NM_001184726) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCN2 (NM_001184726) 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:	>RG230003 representing NM_001184726 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGCACCTTGGGGCCTTCTCTTCTTCTGGGGTCTGGGGCCCTCACTGAGATGTGTGAAATAC
CAGAGATGGACAGCCATCTGGTAGAGAAGTTGGGCCAGCACCTTACCTTGGATGGACCGGCTTCCCT
GGAGCACTTGAACCCAGCATCTATGTGGGCTACGCCTCTCCAGTCTGCAGGCTGGGACCAAGGAAGAC
CTCTACCTGCACAGCCTCAAGCTTGGTTACCAGCAGTGCCTCCTAGGGTCTGCCTCAGCGAGGATGACG
GTGACTGCCAGGGCAAGCCTTCCATGGGCCAGCTGGCCCTCTACCTGCTCGCTCTCAGAGCCAAGTGGCA
TGATCACAAAGGGCCACCCACACTAGCTACTACCAAGTATGGCCTGGGCACTTCTGGCCCTGTGTCTCCAC
CAGAAGCGGGTCCATGACAGCGTGGTGGACAACTTCTGTATGCTGTGGAACCTTCCACCAGGGCCACC
ATTCTGTGGACACAGCAGCCATGGCAGGCTTGGCATTACCTGTCTGAAGCGCTCAAACCTCAACCTGG
TCGGAGACAACGGATCACCATGGCCATCAGAACAGTGCAGAGGAGATCTGAAGGCCAGACCCCGAG
GGCCACTTGGGAATGTCTACAGCACCCATTGGCATTACAGTTCTCATGACTTCCCCATGCGTGGGG
CAGAACTGGGAACAGCATGTCTCAAGGCGAGGGTTGCTTGTGGCCAGTCTGCAGGATGGAGCCTTCCA
GAATGCTCTCATGATTTCCAGCTGTGCCCGTTCTGAACCACAAGACCTACATTGATCTGATCTTCCCA
GACTGTCTGGCACCAGAGTCATGTTGGAACAGCTGCTGAGACCATTCTCAGACCCAAGAGATCATCA
GTGTACAGCTGCAGGTGCTTAGTCTCTTGCCCGGTACAGACAGTCCATCTCTGTTCTGGCCGGGTCCAC
CGTGAAGATGTCTGAAGAAGGCCATGAGTTAGGAGGATTCACATATGAAACACAGGCCCTCCTTGTCA
GGCCCTACTTAACCTCCGTGATGGGAAAGCGGCCGGAGAAAGGGAGTTCTGGCAGCTTCTCCGAGACC
CCAACACCCCACTGTTGCAAGGTATTGCTGACTACAGACCCAAGGATGGAGAAACCATTGAGCTGAGGCT
GGTTAGCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG230003 representing NM_001184726
 Red=Cloning site Green=Tags(s)

MRHLGAFLLGVLGALTEMCEIPEMDSHLVEKLGQHLLPMDRLSLEHLNPSIYVGLRSSLQAGTKED
 LYLHSLKLGYYQCLLGSFAFSEDDGDCQGKPSMGQLALYLLALRANWHDHKGHPHTSYYQYGLGILALCLH
 QKRVDHSDVVDKLLYAVEPFHQGHHSVDTAAMAGLAFTCLKRSNPNPGRRQRITMAIRTVREEILKAQTP
 GHFGNVYSTPLALQFLMTSPMRGAELGTACLKARVALLASLQDGAQNALMISQLLPVLNHKTYIDLIFP
 DCLAPRVMLEPAAETIPQTQEIIISVTLQVLSLLPPYRQISVLAGSTVEDVLLKKAHELGGFTYETQASLS
 GPYLTSVMGKAAGEREFWQLLRDPNTPLLQGIADYRPKDGETIELRLVSW

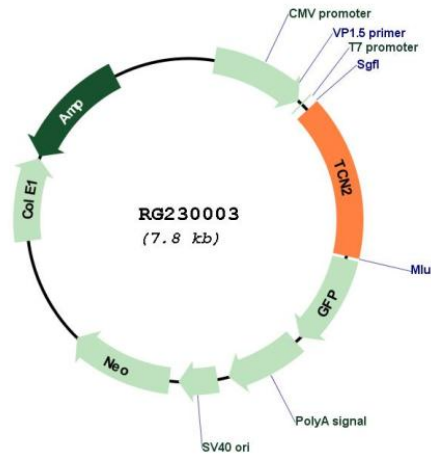
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001184726

ORF Size:	1200 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:	<ol style="list-style-type: none">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 , NP_001171655.1
RefSeq Size:	2006 bp
RefSeq ORF:	1203 bp
Locus ID:	6948
UniProt ID:	P20062
Cytogenetics:	22q12.2
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]