

Product datasheet for **RG225840**

TC2N (NM_001128596) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TC2N (NM_001128596) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TC2N
Synonyms:	C2CD1; C14orf47; MTAC2D1; Tac2-N
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225840 representing NM_001128596
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAACAGAATTTATAAAGAGTTGCTGTGGAGGATGTTTCTATGGTGAACAGAAAAACACAACCTTTT
 CTGTGGAAGAGATTTTAAAGCAGCAGTCCCAAATAGTCAAATGCTACTATCTCTGTACCTCCATTGAC
 TTCTGTTTCTGTAAGCCTCAGCTTGGCTGTACTGAGGATTATTTGCTTCCAAATTACCATCTGATGGC
 AAAGAAGTACCATTTGTGGTGCCCAAGTTAAAGTTATCTTACATTCAACCCAGGACACAAGAACTCCTT
 CACATCTGGAAGAACTTGAAGGATCTGCCAGAGCATCTTTGGAGATCGAAAGGTAGAAGTTCCAGTTC
 ATCCCAGCACGGACCTAGCTATGATGTGTATAACCCATTCTATATGTATCAGCACATTTACCTGATTTG
 AGTCGACGCTTCTCCCGTTCAGAAGTGACGAGACTGTATGGATCGGTTTGTGATTTAAGGACGAACA
 AACTTCCCGTTCCTCCCGTTCAGAAGTGAAGGATCTGAGGATCGGTTTGTGATTTAAGGACGAACA
 GAGACATGATTCATTGTCCAGTGTACCCAGTAGTTCTTCTCAAGGAAAAATTCTCAGGGGAGTAACAGA
 AGCCTGGATACAATTACTCTATCAGGAGATGAAAGGGACTTTGGGAGACTGAATGTGAAATTGTTTTATA
 ATTCTTACAGTAGAACAGATCTGGATCACAGTTTACAGTGCAGAGATTTAAGTTGGCCCTCTAGTTATGG
 AGACACTCCTACTGTTTCTATAAAGGAATACTTACATTGCCAAACAGTGCATTTCAAATCTTCAGCC
 AAGGAAGGTTCCAACGCTATTGAATTTATGAAACGTTTGTATTTGCTATTAACCTTCAAATCTACAAA
 CTGTAAGACTTGTATTTAAGATTCAAACCCAGACTCCCAGGAAGAAAACCATGGAGAATGCTCAATGTC
 ACTCAGAACCTTAGCACACAGGAAATGGATTACTCTTTGGATATAACACCACCTTCAAATTTCTGTT
 TGCCATGCAGAACTTGAATTGGGACTTGTTTTCAAGCAGTAAATAGCAGAATTCAGTTACAATTTCTTG
 AGGCACGGTACCTCCAAGCTCATCAACACCTCTGACTTTGAGTTTTTTCTGTAAGGTGGGATGTTTGA
 CTCGGGAGAGTTGATTTATAAGAAAAAGACACGCTTACTGAAGGCTCCAATGGAAGAGTCAAGTGGGGA
 GAGACTATGATTTTCCACTTATACAGAGTGAAAAAGAAATTGTTTTTCTCATTAAAGCTTTACAGTCGAA
 GCTCTGTAAGAAGAAAACACTTTGTGGCCAGATTTGGATAAGTGAAGACAGTAATAACATTGAAGCAGT
 GAACCACTGGAAAGAGACAGTAATAATCCAGAAAAGGTTGTTATCAGGTGGCACAAATTAATCCATCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225840 representing NM_001128596
 Red=Cloning site Green=Tags(s)

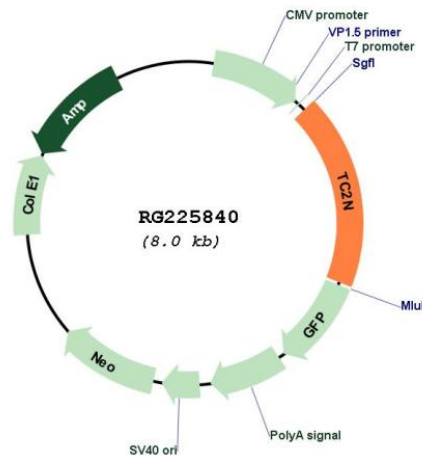
MATEFIKSCCGGCFYGETEKHNFSVERDFKAAVPNSQNAATISVPPLTSVSVKPKQLGCTEDYLLSKLPSDG
 KEVFPVVPKFKLSYIQPRTQETPSHLEELGASARASFGDRKVELSSSSQHGPSYDVYVNFYMYQHISPD
 SRRFPFRSEVTRLYGSVCDLRTNKLPGSPGLSKSMFDLTNSSQRFIQRHDSLSSVPSSSSRKNSQGSNR
 SLDTITLSGDERDFGRLNVKLFYNSSVEQIWIITVLQCRDLWPSSYGDPTVSIKILTLPKPVHFKSSA
 KEGSNAIEFMETFVFAIKLQNLQTVRLVFKIQTQTPRKKTI GECMSLRTLSTQEMDYSLDITPPSKISV
 CHAELELGTFCFQAVNSRIQLQILEARYLPSSSTPLTSLFFVKVGMFSSGELIYKKKTRLLKASNGRVKWG
 ETMIFPLIQSEKEIVFLIKLYSRSSVRRKHFVVGQIWIWSEDSNNIEAVNQWKETVINPEKVIRWHKLNPS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001128596

ORF Size: 1470 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_001128596.2](#), [NP_001122068.1](#)

RefSeq Size: 4982 bp

RefSeq ORF: 1473 bp

Locus ID: 123036

UniProt ID: [Q8N9U0](#)

Cytogenetics: 14q32.12