

## Product datasheet for **RG202948**

### TACO1 (NM\_016360) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TACO1 (NM_016360) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TACO1
Synonyms:	CCDC44; MC4DN8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202948 representing NM_016360 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGGCTTGGGCTGCTGCCAGCCTAAGCAGGGCCGCTGCCGATGCTTGCTGGCACGAGGCCCGGGG  
TCAGGGCGGCTCCTCCGCGGACCCCGGCCCTCCACCCGAGCCCGGGGCTGCGGTGCCGCTCCGGG  
CAGGACGCTGCACTTTACCGGGTGTCCCGCCGGGCACAACAAGTGGTCCAAAGTCAGGCACATCAAG  
GGTCCGAAGGACGTCGAAAGGAGTCGCATCTTCTCCAAACTCTGTTTGAACATCCGCCTGGCAGTAAAG  
AAGGAGGCCCAACCCTGAGCACAACAGCAACCTGGCCAATATCTTAGAGGTGTGTCGCAGCAAACATAT  
GCCCAAGTCAACGATTGAGACAGCACTGAAAATGGAGAAATCCAAGGACACTTATTTGCTGTATGAGGGT  
CGAGGCCCTGGTGGCTCTTCTCTGCTCATCGAGGCATTATCTAACAGTAGCCACAAGTGCCAAGCAGACA  
TTAGACATATCCTGAATAAGAAATGGAGGAGTGATGGCTGTAGGAGCTCGTCACTCTTTGACAAAAGGG  
GGTATTGTGGTTGAAGTGGAGGACAGAGAGAAGAAGGCTGTGAACCTAGAGCGTGCCCTGGAGATGGCA  
ATCGAAGCAGGAGCTGAGGATGTCAAGGAACTGAAGATGAAGAAGAAAGAACGTTTTTAAATTTATTT  
GTGATGCCTTCTCACTGCACCAAGTGAGGAAGAAGCTGGACTCCCTGGCCTGTGTTCTGTGTCTGTGC  
ACTAGAGTTTATCCCAACTCAAAGGTGCAGCTGGCTGAGCCCGACCTGGAACAGGCCGCACATCTCATT  
CAGGCTCTCAGCAACCACGAGGATGTGATTCACGTCATGATAACATTGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202948 representing NM\_016360  
 Red=Cloning site Green=Tags(s)

MSAWAAASLSRAAARCLLARGPGVRAAPPRDPRPSHPPEPRGCGAAPGRTLHFTAAPVAGHNKWSKVRHIK  
 GPKDVERSRIFSKLCNIRLAVKEGGPNPEHNSNLANILEVCRSKHMPKSTIETALKMEKSKDTYLLYEG  
 RGPGGSSLLIEALSNSSHKQADIRHILNKNGGVMAVGARHSFDKKGVI VVEVEDREKKAVNLERALEMA  
 IEAGAEDVKETEDEEERNVFKFICDASSLHQVRKKLDSLGLCSVSCALEFIPNSKVQLAEPDLEQAAHLI  
 QALSNHEDVIHVYDNIE

TRTRPLE - GFP Tag - V

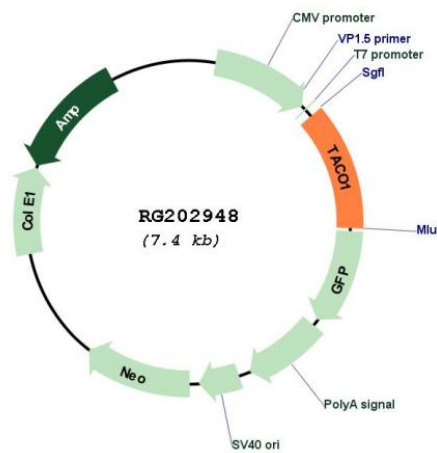
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_016360  
 ORF Size: 891 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>	<a href="#">NM_016360.4</a>
<b>RefSeq Size:</b>	1491 bp
<b>RefSeq ORF:</b>	894 bp
<b>Locus ID:</b>	51204
<b>UniProt ID:</b>	<a href="#">Q9BSH4</a>
<b>Cytogenetics:</b>	17q23.3
<b>Domains:</b>	DUF28
<b>Gene Summary:</b>	This gene encodes a mitochondrial protein that function as a translational activator of mitochondrially-encoded cytochrome c oxidase 1. Mutations in this gene are associated with Leigh syndrome.[provided by RefSeq, Mar 2010]