

## Product datasheet for **RG202519**

### TACD2 (TACSTD2) (NM\_002353) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TACD2 (TACSTD2) (NM_002353) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TACD2
Synonyms:	EGP-1; EGP1; GA733-1; GA7331; GP50; M1S1; TROP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202519 representing NM_002353 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTCGGGGCCCCGGCCTCGCGCCGCCACCGCTGCGGCTGCCGCTGCTGCTGGTGTGGCGGCGG  
TGACCGGCCACACGGCCGCGCAGGACAACCTGCACGTGTCCACCAACAAGATGACCGTGTGCAGCCCCGA  
CGGCCCGGGCGCGCTGCCAGTGCCGCGCGCTGGGCTCGGGCATGGCGGTGACTGCTCCACGCTGACC  
TCCAAGTGTCTGCTGCTCAAGGCGCGCATGAGCGCCCCAAGAACGCCCGCACGCTGGTGGCGCCGAGTG  
AGCACGCGCTCGTGGACAACGATGGCCTCTACGACCCCGACTGCGACCCCGAGGGCGCTTCAAGGCGCG  
CCAGTGCAACCAGACGTCGGTGTGCTGGTGCCTGAACTCGGTGGGCGTGCGCCGACGGACAAGGGCGAC  
CTGAGCCTACGCTGCGATGAGCTGGTGGCACCACCATCCTCATTGACCTGCGCCACCGCCCCACCG  
CCGGCGCCTTCAACCACTCAGACCTGGACGCCGAGCTGAGGCGGCTCTCCGCGAGCGCTATCGGCTGCA  
CCCCAAGTTCGTGGCGCCGTGCACTACGAGCAGCCACCATCCAGATCGAGCTGCGGCAGAACACGTCT  
CAGAAGGCCCGCGGTGACGTGGATATCGGCGATGCCGCTACTACTTCGAGAGGGACATCAAGGGCGAGT  
CTCTATTCCAGGGCCGCGCGGCTGGACTTGCCTGCGCGGAGAACCCCTGCAGTGGAGCGCACGCT  
CATCTATTACCTGGACGAGATTCCTCCGAAGTTCTCATGAAGCGCCTCACCGCCGGCCTCATCGCTGTC  
ATCGTGGTGGTGTGGTGGCCCTCGTCGCCGCGCATGGCCGCTCTGGTGTATCACAACCGGAAAGTCGG  
GGAAGTACAAGAAGGTGGAGATCAAGGAACCTGGGGGAGTTGAGAAAGGAACCGAGCTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202519 representing NM\_002353  
 Red=Cloning site Green=Tags(s)

MARGPGLAPPPLRLPLLLLVLAAVTGHTAAQDNCTPTNKMTVCSPPDGGGRCQCRLGSGMAVDCSTLT  
 SKCLLLKARMSAPKNARTLVRPSEHALVDNDGLYDPDCDPEGRFKARQCNTSVCWCVNSVGVRRTDKGD  
 LSLRCDELVRTHHILIDLRHRPTAGAFNHSDLAELRRLFRERYRLHPKFVAAVHYEQPTIQIELRQNTS  
 QKAAGDVIDIGDAAYYFERDIKGESLFQGRGGLDLRVRGEPLQVERTLIYYLDEIPPKF SMKRLTAGLIAV  
 IVVVVVALVAGMAVLVITNRRKSGKYKKVEIKELGELRKEPSL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002353

**ORF Size:** 969 bp

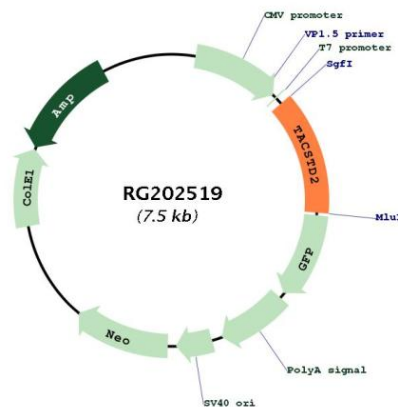
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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"><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>
RefSeq:	<a href="#">NM_002353.1</a> , <a href="#">NP_002344.1</a>
RefSeq Size:	2805 bp
RefSeq ORF:	972 bp
Locus ID:	4070
UniProt ID:	<a href="#">P09758</a>
Cytogenetics:	1p32.1
Domains:	thyroglobulin_1
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This intronless gene encodes a carcinoma-associated antigen. This antigen is a cell surface receptor that transduces calcium signals. Mutations of this gene have been associated with gelatinous drop-like corneal dystrophy.[provided by RefSeq, Dec 2009]

### Product images:



Circular map for RG202519