

## Product datasheet for **RG226903**

### **TBC1D7 (NM\_001143965) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TBC1D7 (NM\_001143965) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TBC1D7  
**Synonyms:** MGCPH; PIG51; TBC7  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG226903 representing NM\_001143965  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTGAGGACTCTCAGAGAACTTTCGTTTCAGTATATTATGAGAAAGTGGGGTTTCGTGGAGTTGAAG  
AAAAGAAATCATTAGAAATTCCTCTAAAAGATGACCGTCTGGATACTGAGAACTTTGTACTTTTAGTCA  
GAGGTTCCCTCTCCCGTCCATGTACCGTGCATTGGTATGGAAGGTGCTTCTAGGAATCTTGCCCTCCACAC  
CACGAGTCCCATGCCAAGGTGATGATGATCGTAAGGAGCAGTACTTGGATGTCCTTCATGCCCTGAAAG  
TCGTTTCGCTTTGTTAGTATGCCACACCTCAGGCTGAAGTCTATCTCCGATGTATCAGCTGGAGTCTGG  
GAAGTTACCTCGAAGTCCCTCTTTTCCACTGGAGCCAGATGATGAAGTGTTCCTTGCCATAGCTAAAGCC  
ATGGAGGAAATGGTGGAAGATAGTGTGCGACTGTTACTGGATCACCCGACGCTTTGTGAACCAATTAATA  
CCAAGTACCGGGATTCCTTGCCCCAGTTGCCAAAAGCGTTTGAACAATACTTGAATCTGGAAGATGGCAG  
ACTGCTGACTCATCTGAGGATGTGTTCCGCGGCCCCAACTTCCTTATGATCTCTGGTTCAAGAGGTGC  
TTTGCGGGATGTTGCTGAATCCAGTTTACAGAGGGTTGGGATAAAGTTGTGAGTGGATCCTGTAAAGA  
TCCTAGTTTTGTAGCTGCGAAATTTTAACTTTAAAATAAAGTTATGGCACTGAACAGTGCAGA  
GAAGATAACAAAGTTTCTGGAAAATATCCCCAGGACAGCTCAGACGCGATCGTGAGCAAGGCCATTGAC  
TTGTGGCACAACACTGTGGACCCCGTCCATTCAAGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG226903 representing NM\_001143965  
Red=Cloning site Green=Tags(s)

MTEDSQRNFRSVYYEKVGFGRGVEEKKSLEILLKDDRLDTEKLCTFSQRFPLPSMYRALVWKVLLGILPPH  
 HESHAKVMMYRKEQYLDVLHALKVVRFVSDATPQAEVYL RMYQLESGKLRSPSPFLEPDDEVFLAIKA  
 MEEMVEDSVDCYWITRRFVNQLNTKYRDSLPLPKAFEQYLNLEDGRLLTHLRMCSAAPKLPYDLWFKRC  
 FAGCLPESSLQRVWDKVVSGSCKILVFVAVEILLTFKIKVMALNSAEKITKFLENIPQDSSDAIVSKAID  
 LWHKHCCTPVHSS

TRTRPLE - GFP Tag - V

**Restriction Sites:**

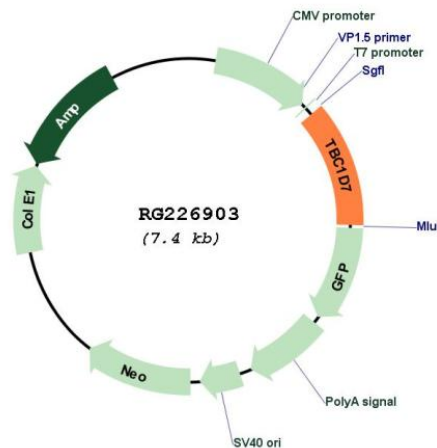
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001143965

**ORF Size:** 879 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_001143965.3</a>
<b>RefSeq Size:</b>	1154 bp
<b>RefSeq ORF:</b>	882 bp
<b>Locus ID:</b>	51256
<b>UniProt ID:</b>	<a href="#">Q9P0N9</a>
<b>Cytogenetics:</b>	6p24.1
<b>Gene Summary:</b>	This gene encodes a member of the TBC-domain containing protein family. The encoded protein functions as a subunit of the tuberous sclerosis TSC1-TSC2 complex which plays a role in the regulation of cellular growth and differentiation. Mutations in this gene have been associated with autosomal recessive megalencephaly. Alternative splicing results in multiple transcript variants. Naturally occurring readthrough transcription occurs between this locus and downstream LOC100130357. [provided by RefSeq, Jan 2016]