

## Product datasheet for **MG213110**

### Gon7 (NM\_001142938) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gon7 (NM\_001142938) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Gon7  
**Synonyms:** MGC25937; MGC60472  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG213110 representing NM\_001142938  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGCTTTCGGGCGAGTACGTCGGTTGTGACGGGGAGCCGACGGCTACGAGTGTCTGTGAGGCGT  
CGGGAGACCGGACCCTCTCCAGAGCCTGTGCGCGGGCGTGGTCCGGATGAAGGAGTTGGTAGCGGAGTT  
CTTCGGGACCCTAGTGGAGCAGGACGCGCAAGGCTTGGCGGAAGATCCGGACGACGCTTTGGATGGTGAT  
GATGAAGATGATGCAGAAGATGAAATAACTCTGGTAGAACTAACTCAGATGGACCATCTGCAAAACGTC  
CAAAGCCAGCATCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG213110 representing NM\_001142938  
Red=Cloning site Green=Tags(s)  
MELSGEYVGC DGEPQRLRVSCASGDADPLQSL SAGVVRMKELVAEFFGTLVEQDAQGLAEDPDDALDGD  
DEDDAEDENNSGRTNSDGPSAKRPKPAS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<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>	<u><a href="#">NM_001142938.1</a></u> , <u><a href="#">NP_001136410.1</a></u>
<b>RefSeq Size:</b>	1162 bp
<b>RefSeq ORF:</b>	297 bp
<b>Locus ID:</b>	100233175
<b>UniProt ID:</b>	<u><a href="#">POC8B4</a></u>
<b>Cytogenetics:</b>	12 E
<b>Gene Summary:</b>	Component of the EKC/KEOPS complex that is required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t(6)A37) in tRNAs that read codons beginning with adenine. The complex is probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37. GON7 likely plays a supporting role to the catalytic subunit OSGEP in the complex. [UniProtKB/Swiss-Prot Function]