

## Product datasheet for **MG203647**

### **Dnajc27 (NM\_153082) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dnajc27 (NM\_153082) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Dnajc27  
**Synonyms:** A1639580; C330021A05Rik; Rabj; Rbj  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG203647 representing NM\_153082  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGACCAACGTGCCGAAGAGGAAGGAGCCCGCAAGTCCCTCCGCATCAAAGTCATCTCCATGGGCA  
 ACGCCGAAGTGGGAAAAGCTGTATTATAAAGCGCTACTGTGAGAAGAGATTTGTGTCTAAATACCTGGC  
 AACCATCGGGATTGACTATGGAGTCACAAAGTCCAAGTCAGAGACAGAGAGATCAAAGTTAACATCTTT  
 GACATGGCTGGACATCCCTTCTTTGAGGTCCGAAATGAGTTTACAAGGACACACAAGGTGTGATAC  
 TAGTCTATGATGTTGGACAGAAAGACTCATTTGATGCCCTTGATTCGTGGCTGGCAGAGATGAAGCAGGA  
 GCTTGGGCCTCACGGGAACATGGACAACATTGTCTTTGTTGTTTGCCAAACAAGATCGACTGCTCCAAA  
 CACCGCTGCATCGATGAAAGTGAGGGCGTCTCTGGGCTGAAAGCAAAGGTTCTCTGTACTTTGAAACAT  
 CAGCACAAACTGGAGAGGGAATCAACGAGATGTTCCAGACCTTTTACTTGTCCATAGTTGACTTGTGTGA  
 AAATGGCGGGAAGCGTCTACTGCAAGTAGCAGTGCTAGTTTCACCAAAGAACAAGCAGACACTATTCGC  
 AGAATCCGAAATAGTAAGGACAGCTGGGAGATGCTAGGAGTCAGACCTGGAGCCTCAAGGGAGGAAGTTA  
 ATAAGGCCTACCGAAGCTGGCTGTGCTGCTTACCCGGACAAGTGTGTAGCACCAGGCAGTGAAGATGC  
 CTTCAAAGCAGTTGTGAATGCCCGGACAGCCCTCTGAAAAACATCAAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203647 representing NM\_153082  
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METNVPKRKEPAKSLRIKVISMGNAEVGKSCIIKRYCEKRFVSKYLATIGIDYGVTKVQVRDREIKVNIF  
 DMAGHPFFFEVRNEFYKDTQGVILVYDVGQKDSFDALDSWLAEMKQELGPHGNMDNIVFVVCANKIDCSK  
 HRCIDESEGRLEWASKGFLYFETSAQTGEGINEMFQTFYLSIVDLCEGGKRPTASSASFTKEQADTIR  
 RIRNSKDSWEMLGVRPGASREEVNKAYRKLAVLLHHPDKCVAPGSEDAFKAVVNARTALLKNIK

TRTRPLE - GFP Tag - V

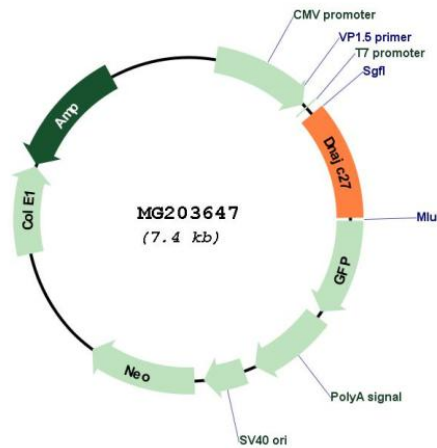
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_153082

**ORF Size:** 819 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_153082.4</a> , <a href="#">NP_694722.2</a>
<b>RefSeq Size:</b>	4696 bp
<b>RefSeq ORF:</b>	822 bp
<b>Locus ID:</b>	217378
<b>UniProt ID:</b>	<a href="#">Q8CFP6</a>
<b>Cytogenetics:</b>	12 A1.1
<b>Gene Summary:</b>	GTPase which can activate the MEK/ERK pathway and induce cell transformation when overexpressed. May act as a nuclear scaffold for MAPK1, probably by association with MAPK1 nuclear export signal leading to enhanced ERK1/ERK2 signaling.[UniProtKB/Swiss-Prot Function]