

## Product datasheet for **RG232009**

### **MSRB3 (NM\_001193460) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MSRB3 (NM\_001193460) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MSRB3  
**Synonyms:** DFNB74  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG232009 representing NM\_001193460  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGCATTCAACCTGCTGCATTTGGTGACAAAGAGCCAGCCAGTAGCCCTTCGAGCCTGTGGGCTTC  
CCTCAGGGTCGTGTAGGGATAAAAAGAAGTGAAGGTGGTCTTTCCAGCAGGAACTGAGGAAGCGGCT  
AACACCCCTGCAGTACCATGTCACTCAGGAGAAAGGGACCGAAAGTGCCTTTGAAGGAGAATACACACAT  
CACAAAGATCCTGGAATATATAAATGTGTGTTTGTGGAAGTCCATTGTTAAGTCAGAAACCAATTTG  
ACTCCGGTTCAGGTTGGCCTTCATTCACGATGTGATCAATTCTGAGGCAATCACATTCACAGATGACTT  
TTCTATGGGATGCACAGGGTGGAAACAAGCTGCTCTCAGTGTGGTGCTCACCTTGGGCACATTTTGTAT  
GATGGGCCTCGTCCAAGTGGGAAAAGATACTGCATAAATTCGGCTGCCTTGTCTTTACACCTGCGGATA  
GCAGTGGCACCGCCGAGGGAGGCAGTGGGGTCGCCAGCCCGCCAGGCAGACAAAGCGGAGCTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG232009 representing NM\_001193460  
**Red=Cloning site Green=Tags(s)**

MSAFNLLHLVTKSQPVVALRACGLPSGSCRDKKNCKVVFSSQQLRKRLTPLQYHVTQEKGTESAFEGEYTH  
HKDPGIYKCVVCGTPLFKSETKFDSSGWSFHDVINSEAITFTDDFSYGMHRVETSCSQCGAHLGHIFD  
DGP RPRTGKRYCINSAALSFTPADSSGTAEGGSGVASPAQADKAEL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

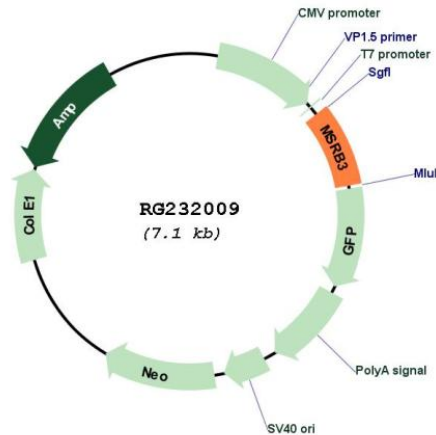


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001193460

ORF Size: 555 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.

<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_001193460.2</a></u>
<b>RefSeq Size:</b>	4598 bp
<b>RefSeq ORF:</b>	558 bp
<b>Locus ID:</b>	253827
<b>UniProt ID:</b>	<u><a href="#">Q8IXL7</a></u>
<b>Cytogenetics:</b>	12q14.3
<b>Gene Summary:</b>	The protein encoded by this gene catalyzes the reduction of methionine sulfoxide to methionine. This enzyme acts as a monomer and requires zinc as a cofactor. Several transcript variants encoding two different isoforms have been found for this gene. One of the isoforms localizes to mitochondria while the other localizes to endoplasmic reticula. [provided by RefSeq, Jul 2010]