

## Product datasheet for **MC203174**

### **Glr3 (NM\_023140) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Glrx3 (NM\_023140) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Glrx3  
**Synonyms:** PICOT; Txnl2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC033506  
 GCGGAGACAGCATGGCGGGGGGGCGGCCGAGGCAGGCGAGCCGTGGCAGTGGTGAAGTCGGCTC  
 TGCCACAGCAGTTGAAGAGCTACTGCGCCTCAAACCAAGTCACCTTGTGGTTCAATTTCTGGGCACCA  
 TGGGCTCCACAGTGTGTACAGATGAACGATGTCATGGCAGAGTTAGCTAAAGAACCCTCATGTTTCAT  
 TTGTGAAGCTGGAAGCCGAAGCTGTTCCCTGAAGTATCTGAAAAATATGAAATTAGCTCTGTCCACCTT  
 CCTGTTCTTCAAGAATTCTCAGAAAGTCGACCGGTTAGATGGTGACATGCCCCAGAGTTGACCAAAAA  
 GTCCAGCGACACGTGTCTAGCGGAGCCTTCTCCTAGTACTAATGAACATCTTAAAGAAGACCTCAGCC  
 TTCGCTGAAAAAGCTGACTCACGCTGCCCTGCATGCTGTTTCATGAAGGAACACCTCAAGAACC  
 CTGTGGTTTCAGCAAGCAGATGGTGGAAATCCTTCAAAACACAATATTCAGTTCAGCAGCTTTGATATC  
 TTCTCAGATGAAGAAGTTCGACAGGGGCTCAAACGACTCTAATTGGCCACCTATCCTCAGCTCTATG  
 TTTCTGGAGAGCTAATAGGAGGACTTGACATAATTAAGGAGCTGGAAGCATCAGAAGAGCTGGACACGAT  
 CTGTCCCAAAGCACCCAAGTTAGAGGAAAGGCTCAAAGTCTGACCAATAAAGCTTCCGTGATGCTCTTT  
 ATGAAAGGAAACAAACAGGAAGCAAAATGTGGATTGAGCAAAACAATTTCTGGAAACTGAAATAGTACTG  
 GGGTTGAATATGAACTTTTATATACTGGAAGATGAAGAAGTGCCTCAGGGATTAACAACTTCTCAA  
 TTGGCCAACTACCCTCAGCTGTATGTGAGAGGGGATCTTGTGGAGGATTGGATATTGTCAAGGAACTG  
 AAAGACAACGGTGAATTGCTGCCTATACTGAAAGGAGAAAATTAGTGAACATAAGCATGGTGTCCAAGGA  
 CTGCAAGAAGTAACTAATTACCTTGAACAGTTGATGATTTGGTCTGAGAAGTGGACTAACAGTAGAGA  
 TACAACACTCAGCCATGCTCGATGCGCTTCAAAGGTGTGCTGAAGAAACATGCTACGTTCTCCATGA  
 AGCAGAGAAGGCAATAAACTCTTCAGACTCAGCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_023140  
**Insert Size:** 1014 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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="#">BC033506</a> , <a href="#">AAH33506</a>
<b>RefSeq Size:</b>	1260 bp
<b>RefSeq ORF:</b>	1014 bp
<b>Locus ID:</b>	30926
<b>UniProt ID:</b>	<a href="#">Q9CQM9</a>
<b>Cytogenetics:</b>	7 F4
<b>Gene Summary:</b>	<p>Together with BOLA2, acts as a cytosolic iron-sulfur (Fe-S) cluster assembly factor that facilitates [2Fe-2S] cluster insertion into a subset of cytosolic proteins (By similarity). Acts as a critical negative regulator of cardiac hypertrophy and a positive inotropic regulator (PubMed:16809552, PubMed:18258855, PubMed:18929570). Required for hemoglobin maturation. Does not possess any thioredoxin activity since it lacks the conserved motif that is essential for catalytic activity (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>