



<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001135005
<b>Insert Size:</b>	1263 bp
<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001135005.2</a></u>
<b>RefSeq Size:</b>	2817 bp
<b>RefSeq ORF:</b>	1263 bp
<b>Locus ID:</b>	25822
<b>UniProt ID:</b>	<u><a href="#">O75953</a></u>
<b>Cytogenetics:</b>	9p13.3
<b>MW:</b>	47.2 kDa
<b>Gene Summary:</b>	<p>This gene encodes a member of the DNAJ heat shock protein 40 family of co-chaperone proteins. The encoded protein contains an N-terminal DNAJ domain and a C-terminal substrate binding domain but lacks the cysteine-rich domain found in other DNAJ family members. In mice, a multi-protein complex containing this protein, thioredoxin 1, and histone deacetylase 4, serves as a master negative regulator of cardiac hypertrophy. [provided by RefSeq, Mar 2017]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses an alternate translation initiation codon, compared to variant 2. The encoded isoform (1) has a shorter and distinct C-terminus compared to isoform 2. Both variants 1 and 4 encode the same isoform (1).</p>