

## Product datasheet for **SC320096**

### MTX2 (NM\_006554) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MTX2 (NM\_006554) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** MTX2  
**Synonyms:** MDPS; metaxin-2  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_006554.3  
GAGGGCCGTTGTCGGCTGCGCCGGAAGTCCCTAGCCAGGCTGGCGGTAACCTTGGGGG  
CTCACTGCAGCCGCGCTGCTGTTGGAGTGGGCTTTCGAGTCTGAACGTTGGCGGGG  
AGGCTCGTTAACTGCCGAGAGCCTCCGGGTTTGGGTGGAGGACGCTGAGCCCCGTGGG  
GGCAGGACCCCGGGCGCGGGCCTCCAGCCGACATGTCTCTAGTGGCGAAGCCTTCGT  
CTCCAGATTGCAGTGCAGAACCTTGGCTGAAAATGCTACATTATATCAGCAATTGAA  
AGGGGAGCAAATTTACTTTCTGACAATGCAGTCTCTTGCAGTGCAGGCTTTTTGCA  
AATGTGTAACCTGCCTATCAAAGTAGTTTGTAGGGCAAATGCAGAATATATGTCTCCATC  
TGGTAAAGTACCTTTTATTCATGTGGGAAATCAAGTAGTATCAGAACTTGGTCCAATAGT  
CCAATTTGTTAAAGCCAAGGGCCATTCTTTAGTGATGGGCTGGAGGAAGTCCAAAAAGC  
AGAAATGAAAGCTTACATGGAATTAGTCAACAATATGCTGTTGACTGCAGAGCTGTATCT  
TCAGTGGTGTGATGAAGCTACAGTAGGGGAGATCACTCATGCTAGGTATGGATCTCCTTA  
CCCTTGGCCTCTGAATCATATTTTGGCCTATCAAAAACAGTGGGAAGTCAAACGTAAGAT  
GAAAGCTATTGGATGGGAAAGAAGACTCTGGACCAGGCTTAGAGGATGTAGACCAGTG  
CTGTCAAGCTCTCTCAAGACTGGGAACACAACCGTATTTCTCAATAAGCAGCCTAC  
TGAACCTGACGCACTGGTATTTGGCCATCTATACACCATCTTACCACACAATTGACAAA  
TGATGAACTTTCTGAGAAGGTGAAAACTATAGCAACCTCCTTGCTTTCTGTAGGAGAAT  
CTCAGGAGTCTTAACTTTTGAATATGTTTTACTTGAATGTTACATTAGATATTGGTGTC  
AGAATTTTAAAACCAAATTAAGTCTTTTTGAAACCTCAAATTATATAATGTATCTTATGT  
ATGTGCTTTATATTGTTATTTGTGTATACATTAATAAATAATTCTGAATTATTTAATCTGAT  
ATGTTGATTCTGTATCTTGAATTTTTGTTTCCTTGAACATGCATGATTTAAAAATA  
AAGCTTAAACAACCGAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_006554



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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>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>	<a href="#">NM_006554.3</a> , <a href="#">NP_006545.1</a>
<b>RefSeq Size:</b>	1385 bp
<b>RefSeq ORF:</b>	792 bp
<b>Locus ID:</b>	10651
<b>UniProt ID:</b>	<a href="#">O75431</a>
<b>Cytogenetics:</b>	2q31.1
<b>Gene Summary:</b>	<p>The protein encoded by this gene is highly similar to the metaxin 2 protein from mouse, which has been shown to interact with the mitochondrial membrane protein metaxin 1. Because of this similarity, it is thought that the encoded protein is peripherally associated with the cytosolic face of the outer mitochondrial membrane, and that it is involved in the import of proteins into the mitochondrion. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 7. [provided by RefSeq, Jun 2009]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>