

## Product datasheet for SC115051

### MTCH1 (NM\_014341) Human Untagged Clone

#### Product data:

|                           |                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                               |
| Product Name:             | MTCH1 (NM_014341) Human Untagged Clone                                                            |
| Tag:                      | Tag Free                                                                                          |
| Symbol:                   | MTCH1                                                                                             |
| Synonyms:                 | CGI-64; PIG60; PSAP; SLC25A49                                                                     |
| Mammalian Cell Selection: | None                                                                                              |
| Vector:                   | <u>pCMV6-XL4</u>                                                                                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                                            |
| Fully Sequenced ORF:      | >OriGene ORF within SC115051 sequence for NM_014341 edited (data generated by NextGen Sequencing) |

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ATGGGAGCTTCGGACCCGGAAGTGGCGCCCTGGGCTCGCGGCGGTGCCGCGGGGATGGCG
GGAGCCGGAGCTGGAGCCGGAGCTCGCGCGGAGCGGCGGGGTCGAGGCTCGAGCT
CGCGATCCACCGCCCGCACCGCGCACATCCTCGCCACCCTCGGCTCGGCTCAGCCC
TCGGCCCCGAGGATGGATGGCGGGTCAAGGGGCTGGGGTCTGGGGACAACGCCCCGACC
ACTGAGGCTCTTTTCGTGGCACTGGCGCGGGCGTGACGGCGCTCAGCCATCCCCTGCTC
TACGTGAAGCTGCTCATCCAGGTGGGTGATGAGCCGATGCCCCCACCCTTGGGACCAAT
GTGCTGGGGAGGAAGGTCTCTATCTGCCGAGCTTCTTCACCTACGCCAAGTACATCGTG
CAAGTGGATGGTAAGATAGGGCTGTTCCGAGGCCTGAGTCCCCGGCTGATGTCCAACGCC
CTCTCTACTGTGACTCGGGGTAGCATGAAGAAGTTTTCCCTCCAGATGAGATTGAGCAG
GTTTCCAACAAGGATGATATGAAGACTTCCCTGAAGAAAGTTGTGAAGGAGACCTCCTAC
GAGATGATGATGCAGTGTGTGTCCCGCATGTTGGCCACCCCCTGCATGTCATCTCAATG
CGCTGCATGGTCCAGTTTGTGGGACGGGAGGCCAAGTACAGTGGTGTGCTGAGCTCCATT
GGGAAGATTTTCAAAGAGGAAGGGCTGCTGGGATTCTTCGTTGGATTAATCCCTCACCTC
CTGGGCGATGTGGTTTTCTGTGGGGCTGTAACCTGCTGGCCCACTTCATCAATGCCTAC
CTGGTGGATGACAGCTTCAGCCAGGCCCTGGCCATCCGAGCTATACCAAGTTCGTGATG
GGGATTGCAGTGAGCATGCTGACCTACCCCTTCTGCTAGTTGGCGACCTCATGGCTGTG
AACAACTGCGGGCTGCAAGCTGGGCTCCCCCTTACTCCCCAGTGTTCAAATCCTGGATT
CACTGCTGGAAGTACCTGAGTGTGACAGGCCAGCTCTTCCGAGGCTCCAGCCTGCTTTTC
CGCCGGGTGTCATCAGGATCATGCTTTGCCCTGGAGTAA

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Clone variation with respect to NM\_014341.1



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| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_014341 unedited</p> <p>GACAGCATATTTGTAATACGACTTCACTATAGGGCGGCCGCAATTTCGCACCAGCCCCGG<br/> CCTGCGGCTGCCGCCACAGCTCCCGAGCCCGGGCCCCGGCTGCCGCCACCATTTGACCC<br/> CCGGCCCGCAGCCAGTGTCTGCTAGGCCTCCAACCGGCCGGGAGCCACATCCGGCGT<br/> GTCCACCCCGCGCACCACGCTCCCGAGCTCCCCCGGGCCTGGAGTGGTGCGCCCGGG<br/> CCCCCCCCCTGACGCCGGTGAGGGGGCGTGCCCCGTACGTGACGGGGAGTGACCTCGC<br/> CGCCGGGCGCCATGGGAGCTTCGGACCCGGAAGTGCGCCCTGGGCTCGCGCGGTGCCG<br/> CGGGGATGGCGGGAGCCGAGCTGGAGCCGAGCTCGCGCGGAGCGGGCGGGGGTCCG<br/> AGGCTCGAGCTCGCGATCCACCGCCCGCGCACCAGCGCACATCCTCGCCACCCTCGGCCTG<br/> CGGCTCAGCCCTCGGCCCGCAGGATGGATGGCGGGTCAAGGGGCTGGGGTCTGGNGACA<br/> ACGCCCCGACCACTGAGGCTCTTTTCGTGGCACTGGGCGCGGGCGTGACGGCGCTCAGCC<br/> ATCCCCTGCTCTACGTGAAGCTGCTNCATCCAGGTGGGTATGAGCCCGATGCCCCCAC<br/> CCTTGGGACCAATGTGCTNGGGAGGAAGGTCTCTATCTGCCGAGCTTTCTACCTACGC<br/> CCAGTACATCGTCAAGTGGATGGTAAAGATAGGGCTGNTCCGGGGCCCTGAGTCCNCGG<br/> CTGATGTCCAACGCCCTCTCTACTGTGACTCGGGTAGCATGAAGAAGGGTTTTCCCTCC<br/> AGATGAGATTGAGCCAGTTTCCCCACAGGATGATATGAAGACTTCCCTGAAGAAAGTGTG<br/> GAAGGAGACTCCTACGAGATGATGATGCAGGGGTGTTCCGCAAGTTGGGCCACC</p> |
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_014341 unedited</p> <p>NTTTGACTNTGNACCGCGGCCCGCATNCNAGNGATCCATTTTTTTTTTTTTTTTTTTTTT<br/> TTTTTTTCCAAACCACCAATACATTTATTTGCGGGGAGAGAGGTCAAATCTTACCATGA<br/> ACTTTAAACTGGGTAGGACTAGAGACTGATCTGCCAACCTCTGGGTATTCACAACT<br/> GCACAGGTAACCAGATCCTGTACCCGAGGCATCACCATTAAACAGATGAGCATTAGATGA<br/> GGAGGACACATTCTGAGTAGTTGCATGATTTCCATTCAAAGGCAGGTGCTGCCCTCATA<br/> TCAAAAAAGTAGTGTGAGAAAAACACAGGCAGAGCCTGGCCATTTGCCTCCTAGCATAG<br/> GCCTAAACATGATGGTGGCCACGTGCCAGGGGACCACACCCTATGTACAAAGCAGGAGAA<br/> TGATGCTCCCAGCTGAGCTGCAGGATGGGCGCTGGGCTGACTGGAGGGGTAAACGGGGGT<br/> GGGGTCTGACCCATTAGCCTTTCCCATCCAACCTGGGCCCCCATAAGCCATTCTCTGG<br/> CCCTCTGCACAAGACAGACTCAGCAAATCTGCGAGGTATGGGGATTCTGCCAACTCCCCA<br/> CCTCGCCTCACCTTCCCTAGGTCTGCCGGGTGACCCAATCCAAGTGGTGCAGCCCCACCC<br/> CCGCTCAACCCACATCTGGACAGACATGGCAAATATGGAAGTGAAGCCCGGTGGGC<br/> TGAGACACATCTGGTTGTTGTTGGGTTTGAATCCTCTTGCAAGGTGCCAAGGTGGTCA<br/> GGCCTCACCCACGGTGGCCAGGTTGAGACCGTGTTTTTTAGATGATTGAGTTACTCCGG<br/> GCAAACATGATCCTGAAGACACCCGCGGAAAAGCAGCTGGAACCTCGAAAGACTGGCCTG<br/> CCTACTAG</p>                                          |
| <b>Restriction Sites:</b>           | NotI-NotI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ACCN:</b>                        | NM_014341                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Insert Size:</b>                 | 2500 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>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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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| <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>NM_014341.1, NP_055156.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>RefSeq Size:</b>           | 1890 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq ORF:</b>            | 1119 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Locus ID:</b>              | 23787                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID:</b>            | <u>Q9NZI7</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Cytogenetics:</b>          | 6p21.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Domains:</b>               | mito_carr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Families:</b>      | Transmembrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Summary:</b>          | <p>This gene encodes a member of the mitochondrial carrier family. The encoded protein is localized to the mitochondrion inner membrane and induces apoptosis independent of the proapoptotic proteins Bax and Bak. Pseudogenes on chromosomes 6 and 11 have been identified for this gene. Alternatively spliced transcript variants encoding multiple isoforms have been observed. [provided by RefSeq, Oct 2012]</p> <p>Transcript Variant: This variant (1) encodes the shorter isoform (PSAP-LS, PMID 18291114).</p> <p>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> |