

## Product datasheet for **SC304629**

### SLC30A10 (NM\_018713) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC30A10 (NM_018713) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC30A10
Synonyms:	HMDPC; HMNDYT1; ZnT-10; ZNT8; ZNT10; ZRC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC304629 representing NM\_018713.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGCCGCTACTCTGGCAAGACGTGCCGGCTGCTCTTCATGCTGGTGCTCACCGTCGCCTTCTTCGTG
GCGGAGCTGGTCTCCGGTACCTGGGCACTCCATCGCGCTGCTCTCCGACTCCTTCAACATGCTCTCC
GACCTGATCTCGCTGTGGGTGGGCTGAGCGCCGGCTACATCGCCCGGCCCCACCCGGGCTTCAGC
GCCACCTACGGCTACGCCCGCGCGAGGTGGTGGGCGCGCTGAGCAACCGGGTCTTCCTCACCGCGCTC
TGCTTCACCATCTTCGTGGAGGCCGTGCTGCGCCTGGCCCGGCCGAGCGCATCGATGACCCCGAGCTG
GTGCTCATCGTCGGCGTCTGGGCTGTTGGTCAACGTGGTGGGCTGCTCATCTCCAGGACTGCGCC
GCCTGGTTCGCGTGTGCTCCGGGACGAGTCGCCGCTGCAGCAGCGGCAGCAGCTGGCGGAGGGC
TGTGTCCCGGCGCTTTCGGGGGCGCTCAGGGCGCGGAGGACCCGCGCGCGGGCGGACCCGACAGCC
CCAGGCTCGGACTCGGCCGTAACCCTCCGGGGACCTCGGTGAAAGGAAGCGGGAGAAGGGGGCGACC
GTGTTTCGCAAACGTAGCAGGTGATTCTTCAACACCCAGAATGAGCCAGAAGACATGATGAAAAAAGAG
AAAAAGTCTGAAGCTCTGAATATCAGAGGTGACTTTTGCATGTGATGGGAGATGCCTGGGGTCCGTG
GTTGTGGTCATCACGGCCATCATATTCTATGTGCTTCCCTGAAGAGTGAGGACCCGTGTAAGTGGCAG
TGTTACATTGACCCAGCCTGACTGTCCCTCATGGTCATCATATTTTGTGATCTGCCTTCCCGCTTATC
AAGGAGACCGCTGCCATTCTGCTACAGATGGTCCCAAAAGGAGTCAACATGGAAGAGCTGATGAGTAAA
CTCTCTGCTGTGCTGGAATTAGCAGTGTACATGAAGTGCACATCTGGAACTTGTAAAGTGGAAAGATT
ATTGCCACCCTGCACATCAAGTATCCTAAGGACAGGGGATATCAAGATGCCAGCACAAAAATTCGAGAA
ATCTTCCACCATGCGGGAATCCACAATGTGACCATCCAGTTTAAAAATGTGGACTTGAAGGAACCCCTG
GAGCAGAAGGACTTACTGTTGCTCTGCAACTCACCTGCATCTCCAAGGGCTGTGCTAAGCAGCTGTGT
TGTCCCCCGGGCACTGCCTCTGGCTCACGTCAATGGCTGTGCTGAGCACAATGGTGGGCCTCTCTA
GACACATACGGAAGTGATGGCCTCAGTAGAAGAGACGCAAGAGAAGTGGCTATTGAAGTGTCTTTGGAT
AGCTGTCTGAGTGACCACGGACAAAGTCTTAACAAAACCTCAGGAGGACCAATGTTATGTCAACAGAAGC
CATTTTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_018713

**Insert Size:** 1458 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** 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.

**Components:** 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_018713.2](#)

**RefSeq Size:** 2869 bp

**RefSeq ORF:** 1458 bp

**Locus ID:** 55532

**UniProt ID:** [Q6XR72](#)

**Cytogenetics:** 1q41

**Protein Families:** Transmembrane

**MW:** 52.7 kDa

**Gene Summary:** This gene is highly expressed in the liver and is inducible by manganese. Its protein product appears to be critical in maintaining manganese levels, and has higher specificity for manganese than zinc. Loss of function mutations appear to result in a pleomorphic phenotype, including dystonia and adult-onset parkinsonism. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Mar 2012]  
Transcript Variant: This variant (1) is protein-coding.