# Recombinant Full Length Human SLC16A9 Protein

**Cat. No.** SLC16A9-6789HF **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant full-length Human SLC16A9 Protein is produced by Wheat Germ (in vitro) expression system. |
| **Species** | Human |
| **Source** | In Vitro Cell Free System |
| **ProteinLength** | 287 amino acids |
| **Description** | This gene encodes a member of the the SLC39A family of divalent metal transporters that mediates the cellular uptake of manganese, zinc, iron, and cadmium. The encoded protein contains eight transmembrane domains, a histidine-rich motif, and a metalloprotease motif, and is expressed on the plasma membrane and the endocytic vesicle membrane. It is an important transporter of nontransferrin-bound iron and a critical regulator of manganese homeostasis. Naturally occurring mutations in this gene are associated with neurodegeneration with brain iron accumulation and early-onset parkinsonism-dystonia with hypermanganesemia. |
| **Form** | Liquid, 25 mM Tris-HCl of pH8.0 containing 2% glycerol. |
| **Molecular Mass** | 56 kDa |
| **AA Sequence** | MELKKSPDGGWGWVIVFVSFLTQFLCYGSPLAVGVLYIEWLDAFGEGKGKTAWVG SLASGVGLLASPVCSLCVSSFGARPVTIFSGFMVAGGLMLSSFAPNIYFLFFSYGIVV GLGCGLLYTATVTITCQYFDDRRGLALGLISTGSSVGLFIYAALQRMLVEFYGLDGCL |

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| | LIVGALALNILACGSLMRPLQSSDCPLPKKIAPEDLPDKYSIYNEKGKNLEENINILDKS YSSEEKCRITLANGDWKQDSLLHKNPTVTHTKEPETYKKKVAEQTYFCKQLAKRKW QLYKNYCGETVALFKNKVFSALFIAILLFDIGGFPPSLLMEDVARSSNVKEEEFIMPLIS IIGIMTAVGKLLLGILADFKWINTLYLYVATLIIMGLALCAIPFAKSYVTLALLSGILGFLT GNWSIFPYVTTKTVGIEKLAHAYGILMFFAGLGNSLGPPIVGWFYDWTQTYDIAFYFS GFCVLLGGFILLLAALPSWDTCNKQLPKPAPTTFLYKVASNV |
| **Notes** | Best use within three months from the date of receipt of this protein. |
| **Storage** | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |

## GENE INFORMATION

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| **Gene Name** | SLC16A9 solute carrier family 16, member 9 (monocarboxylic acid transporter 9) [ Homo sapiens ] |
| **Official Symbol** | SLC16A9 |
| **Synonyms** | SLC16A9; solute carrier family 16, member 9 (monocarboxylic acid transporter 9); FLJ43803; MCT9; MCT 9; C10orf36; |
| **Gene ID** | 220963 |
| **mRNA Refseq** | NM_194298 |
| **Protein Refseq** | NP_919274 |
| **MIM** | 614242 |
| **UniProt ID** | Q7RTY1 |

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