

# Recombinant Full Length Human SLC16A2 Protein

**Cat. No.** SLC16A2-6784HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full-length Human SLC16A2 Protein is produced by Wheat Germ (in vitro) expression system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 461 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | This gene encodes an integral membrane protein transporter of thyroid hormone; specifically, cellular importation of thyroxine (T4), triiodothyronine (T3), reverse triiodothyronine (rT3) and diiodothyronine (T2). This gene is expressed in many tissues including brain, heart, placenta, lung, kidney, skeletal muscle, and liver. This gene likely plays an important role in the development of the central nervous system. Loss of function mutations in this gene are associated with psychomotor retardation in males while females exhibit no neurological defects and more moderate thyroid-deficient phenotypes. This gene is subject to X-chromosome inactivation. |
| <b>Form</b>             | Liquid, 25 mM Tris-HCl of pH8.0 containing 2% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 67.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MGRGGGGGLDVGGGGEGSRDRLSRDGLASWGAEPGGGGSGSGSSSPSSSSCSS<br>RNKYQPQSGSSGPSSHSPPAAMALQSQASEEAKGPWQEADQEQQEPVGSPEPES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

EPEPEPEPEPVPPPEPQPEPQPLPDPAPLPELEFESERVHEPEPTPTVETRGTAR  
 GFQPPEGGFGWVVFVFAATWCNGSIFGIHNSVGILYSMLLEEEKEKNRQVEFQAAWV  
 GALAMGMIFFCSPIVSIFTDRLGCRITATAGAAVAFIGLHTSSFTSSLSLRYFTYGILFG  
 CGCSFAFQPSLVILGHYFQRRLLGLANGVVSAGSSIFSMSFPFLIRMLGDKIKLAQTFQ  
 VLSTFMFVLMLLSLTYRPLLPSQDTPSKRGVRTLHQRFLAQLRKYFNMRVFRQRTY  
 RIWAFGIAAAALGYFVPYVHLMKYVEEEFSEIKETWVLLVCIGATSGLGRLVSGHISD  
 SIPGLKKIYLQVLSFLLLGLMSMMIPLCRDFGGLIVVCLFLGLCDGFFITIMAPIAFELVG  
 PMQASQAIGYLLGMMALPMIAGPPIAGLLRNCFGDYHVAFYFAGVPPPIIGAVILFFVPL  
 MHQRMFKKEQRDSSKDKMLAPDPDPNGELLPGSPNPEEPI

**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

|                        |                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | SLC16A2 solute carrier family 16, member 2 (thyroid hormone transporter) [ Homo sapiens ] |
| <b>Official Symbol</b> | SLC16A2                                                                                   |
| <b>Synonyms</b>        | SLC16A2; MCT7; MCT8; XPCT; AHDS; MCT 7; MCT 8; MRX22; DXS128; DXS128E;                    |
| <b>Gene ID</b>         | 6567                                                                                      |
| <b>mRNA Refseq</b>     | NM_006517                                                                                 |
| <b>Protein Refseq</b>  | NP_006508                                                                                 |
| <b>MIM</b>             | 300095                                                                                    |

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