OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC303783

SLC16A2 (NM_006517) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC16A2 (NM_006517) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC16A2
Synonyms:	AHDS; DXS128; DXS128E; MCT 7; MCT7; MCT 8; MCT8; MRX22; XPCT
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene ORF sequence for NM_006517 edited
ATGGGGAGAGGAGGAGGGGGGTTGGACGTGGGAGGAGGAGGAGAGGGCTCGAGGGACCGT
CTGTCGCGGGACGGGCTGGCCAGCTGGGGCGCGGAGCCTGGAGGAGGAGGCAGCGGCAGC
GGCAGCAGCAGCCCTCCGAGCAGCAGCAGCTGCAGCAGCAGAAACAAGTACCAGCCACAA
AGCGGCTCCTCTGGCCCAAGCAGCCACAGTCCCCCCGCCGCGATGGCGCTGCAAAGCCAG
GCGAGCGAGGAAGCAAAGGGGCCCTGGCAGGAGGCAGACCAGGAACAGCAGGAGCCGGTG
GGTAGCCCAGAGCCGGAGTCTGAGCCGGAGCCTGAGCCCGAGCCCGAGCCCGTGCCAGTG
CCCCCGCCCGAGCCCCAGCCGGAGCCCCAGCCCCTACCGGACCCCGCACCCCTGCCGGAG
CTGGAGTTCGAGTCCGAGCGGGTGCACGAACCCGAGCCCACGCCTACGGTAGAGACCCGC
GGCACCGCGCGCGGCTTCCAGCCTCCCGAAGGTGGCTTCGGCTGGGTGGTGGTGTTCGCT
GCCACCTGGTGCAACGGCTCCATCTTCGGCATCCATAACTCTGTCGGGATCCTCTACTCC
ATGCTGCTAGAGGAGGAAAAGGAAAAAAATCGCCAAGTGGAGTTCCAAGCAGCATGGGTC
GGAGCCCTCGCGATGGGTATGATCTTCTTCTGTTCTCCCATTGTGAGTATATTCACTGAC
CGTTTGGGCTGCCGAATCACAGCAACCGCGGGGGCTGCCGTTGCTTTCATTGGCCTCCAT
ACCAGCTCCTTCACCAGCTCCCTAAGCCTGCGCTACTTCACCTACGGGATTCTCTTTGGT
TGTGGCTGTTCCTTCGCCTTTCAGCCATCCCTCGTCATCCTGGGCCACTACTTTCAACGC
CGCCTGGGTCTGGCCAATGGTGTGGTGTCTGCTGGGAGTAGCATTTTCTCCATGTCCTTC
CCCTTCCTCATCAGAATGCTGGGGGATAAGATCAAGCTGGCCCAAACCTTCCAGGTGCTG
AGTACCTTCATGTTTGTTCTTATGCTGCTTTCACTCACCTACCGGCCCCTCCTGCCCAGC
TCCCAGGACACCCCAAGCAAGAGAGGTGTCCGCACCCTGCACCAGCGCTTTCTGGCTCAG
CTCAGGAAGTACTTCAACATGCGAGTGTTCCGCCAACGCACTTACCGCATCTGGGCCTTC
GGAATTGCTGCTGCTGCCCTTGGCTACTTTGTTCCCTATGTACACCTGATGAAGTATGTG
GAGGAGGAGTTCTCAGAAATCAAGGAGACCTGGGTGCTCTTGGTGTGTATTGGGGCTACC
TCAGGCCTTGGGCGTCTTGTGTCAGGCCACATCAGTGACTCCATCCCTGGACTTAAGAAG
ATCTACTTGCAGGTCCTTTCCTTCCTGCTCCTGGGCCTGATGTCCATGATGATTCCCCTG
TGCCGGGACTTCGGGGGCCTTATCGTCGTCTGTCTTTTCCTGGGCCTTTGCGATGGCTTC
TTCATCACCATCATGGCCCCCATTGCATTTGAGCTGGTGGGCCCAATGCAGGCCTCACAG
GCCATTGGCTACCTCCTGGGCATGATGGCCCTGCCAATGATTGCTGGGCCCCCCATTGCA
GGCCTACTCCGCAACTGTTTTGGGGACTACCATGTGGCCTTCTACTTTGCCGGTGTGCCC
CCCATCATCGGGGCTGTAATCCTCTTCTTCGTCCCTCTGATGCATCAAAGGATGTTCAAG
AAAGAGCAGAGAGATTCCAGCAAGGATAAGATGTTGGCCCCTGACCCAGACCCCAATGGG
GAGCTACTGCCGGGCTCCCCCAACCCTGAGGAACCAATCTAA
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Restriction Sites: Please inquire

ACCN: NM_006517

Insert Size: 1842 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_006517.2, NP_006508.1
RefSeq Size:	4401 bp
RefSeq ORF:	1842 bp
Locus ID:	6567
UniProt ID:	P36021
Cytogenetics:	Xq13.2
Protein Families:	Transmembrane
Gene Summary:	This gene encodes an integral membrane protein that functions as a transporter of thyroid hormone. The encoded protein facilitates the cellular importation of thyroxine (T4), triiodothyronine (T3), reverse triiodothyronine (rT3) and diidothyronine (T2). This gene is expressed in many tissues and 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. Mutations in this gene are the cause of Allan-Herndon-Dudley syndrome. [provided by RefSeq, Mar 2012]