

Product datasheet for **SC303219**

Solute carrier family 22 member 18 (SLC22A18) (NM_002555) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Solute carrier family 22 member 18 (SLC22A18) (NM_002555) Human Untagged Clone
Tag:	Tag Free
Symbol:	Solute carrier family 22 member 18
Synonyms:	BWR1A; BWSCR1A; HET; IMPT1; ITM; ORCTL2; p45-BWR1A; SLC22A1L; TSSC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303219 representing NM_002555. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
 ATGCAGGGAGCTCGGGCTCCAGGGACCAGGGCCGGTCCCCGGCAGGATGAGCGCTCTAGGCCGGTCC
 TCGGTCATCTTGCTTACCTACGTGCTGGCCGCCACAGAACTTACCTGCCTCTTCATGCAGTTCTCCATC
 GTGCCATACCTGTCTCGAAACTGGGCTGGATTCCATTGCCTTCGGCTACCTGCAAACACCTTCGGG
 GTGCTGCAGCTGCTGGGCGGGCCGGTATTGGCAGGTTGCAGACCAGCGGGGCGGGCGGGCGCTC
 ACGCTCTCCTTCTGGCTGCCTTGGCGCTCTACCTGCTCTGGCGGCCCTCCAGCCGGCCCTGCC
 GGGTCTACCTGCTCTTCGCCTCGCGCTGCCCGAGCGCTCATGCACACGCTGCCAGCCGCCAGATG
 GTCATCACGGACCTGTCCGCCACCCGAGGAGCGGCCCGCGGCCCTGGGCGGCTGGGCTCTGCTTCGGC
 GTCGGAGTCATCCTCGGCTCCCTGCTGGGCGGGACCCTGGTCTCCGCGTACGGGATTCACTGCCCGGCC
 ATCCTGGCTGCCCTGGCCACCCTCCTGGGAGCTGTCTCAGCTTACCTGCATCCCCGCCAGCACAAA
 GGGGCCAAACTGACGCCAGGCTCCACTGCCAGGCGGCCCGGGCCAGTGTGTTGACCTGAAGGCC
 ATCGCCTCCCTGCTGGGCTGCCAGAGTCCCAGGATCTTCTGGTGAAGGTGGCTCCAACTGCCCC
 ACAGGGCTCTTCATGGTCATGTTCTCCATCATCTCCATGGACTTCTTCAGCTGGAGGCCGCCAAGCT
 GGCTACCTCATGCTCTTCTCGGGCTCTCCAGATGGTGACCCAGGGCCTGGTTCATCGGTGGGCTGGCCATG
 AGCCATTCTCGAGGAGGTGCTGCTCCGGGCCAGCGTGCTGGTCTTCATCGTGGTGGGCTGGCCATG
 GCCTGGATGTCCAGCGTCTTCACTTCTGCCTCCTGGTGCCCGGCTGGTGTTCAGCCTCTGCACCTC
 AACGTGGTCACCGACAGCATGCTGATCAAGGCTGTCTCCACCTCGGACACAGGGACCATGCTGGGCTC
 TGCGCCTCTGTACAACCACTGCTCCGAACCTGGGACCCACGGTCGGCGGCCCTCTGTACCGCAGTTT
 GGCGTCCCCGCTTTCGGCCACGTGCAGTTGCTATCAATACCCTGTCTCTGCTCTGTGGAGGAAA
 CCTATGCCCCAGAGGAAGGACAAAGTCCGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_002555
Insert Size:	1275 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:	<ol style="list-style-type: none"> 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:	<u>NM_002555.5</u>
RefSeq Size:	1555 bp
RefSeq ORF:	1275 bp
Locus ID:	5002
UniProt ID:	<u>Q96BI1</u>
Cytogenetics:	11p15.4
Protein Families:	Druggable Genome, Transmembrane
MW:	44.8 kDa

Gene Summary:

This gene is one of several tumor-suppressing subtransferable fragments located in the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian, and breast cancer. This gene is imprinted, with preferential expression from the maternal allele. Mutations in this gene have been found in Wilms' tumor and lung cancer. This protein may act as a transporter of organic cations, and have a role in the transport of chloroquine and quinidine-related compounds in kidney. Several alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Oct 2015]

Transcript Variant: This variant (1) differs in the 5' UTR and coding sequence compared to variant 3. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Variants 1 and 2 both encode the same isoform (b).