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Product datasheet for RG204889

Solute carrier family 22 member 18 (SLC22A18) (NM_183233) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Solute carrier family 22 member 18
Synonyms:	BWR1A; BWSCR1A; HET; IMPT1; ITM; ORCTL2; p45-BWR1A; SLC22A1L; TSSC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG204889 representing NM_183233
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGGGAGCTCGGGCTCCCAGGGACCAGGGCCAGTCCCCCGGCAGGATGAGCGCTCTAGGCCGGTCCT
CGGTCATCTTGCTTACCTACGTGCTGGCCGCCACAGAACTTACCTGCCTCTTCATGCAGTTCTCCATCGT
GCCATACCTGTCTCGGAAACTGGGCCTGGATTCCATTGCCTTCGGCTACCTGCAAACCACCTTCGGGGTG
CTGCAGCTGCTGGGCGGGCCGGTGTTTGGCAGGTTCGCAGACCAGCGCGGGGCGCGGGCGGCGCTCACGC
TCTCCTTCCTGGCTGCCTTGGCGCTCTACCTGCTCCTGGCGGCCGCCTCCAGCCCGGCCCTGCCCGGGGT
CTACCTGCTCTTCGCCTCGCGCCTGCCCGGAGCGCTCATGCACACGCTGCCAGCCGCCCAGATGGTCATC
ACGGACCTGTCGGCACCCGAGGAGCGGCCCGCGGCCCTGGGCCGGCTGGGCCTCTGCTTCGGCGTCGGAG
TCATCCTCGGCTCCCTGCTGGGCGGGACCCTGGTCTCCGCGTACGGGATTCAGTGCCCGGCCATCCTGGC
TGCCCTGGCCACCCTCCTGGGAGCTGTCCTCAGCTTCACCTGCATCCCCGCCAGCACCAAAGGGGCCAAA
ACTGACGCCCAGGCTCCACTGCCAGGCGGCCCCCGGGCCAGTGTGTTCGACCTGAAGGCCATCGCCTCCC
TGCTGCGGCTGCCAGACGTCCCGAGGATCTTCCTGGTGAAGGTGGCCTCCAACTGCCCCACAGGGCTCTT
CATGGTCATGTTCTCCATCATCTCCATGGACTTCTTCCAGCTGGAGGCCGCCCAAGCTGGCTACCTCATG
TCCTTCTTCGGGCTCCTCCAGATGGTGACCCAGGGCCTGGTCATCGGGCAGCTGAGCAGCCACTTCTCGG
AGGAGGTGCTGCTCCGGGCCAGCGTGCTGGTCTTCATCGTGGTGGGCCTGGCCATGGCCTGGATGTCCAG
CGTCTTCCACTTCTGCCTCCTGGTGCCCGGCCTGGTGTTCAGCCTCTGCACCCTCAACGTGGTCACCGAC
AGCATGCTGATCAAGGCTGTCTCCACCTCGGACACAGGGACCATGCTGGGCCTCTGCGCCTCTGTACAAC
CACTGCTCCGAACTCTGGGACCCACGGTCGGCGGCCTCCTGTACCGCAGCTTTGGCGTCCCCGTCTTCGG
CCACGTGCAGGTTGCTATCAATACCCTTGTCCTCCTGGTCCTCTGGAGGAAACCTATGCCCCAGAGGAAG
GACAAAGTCCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

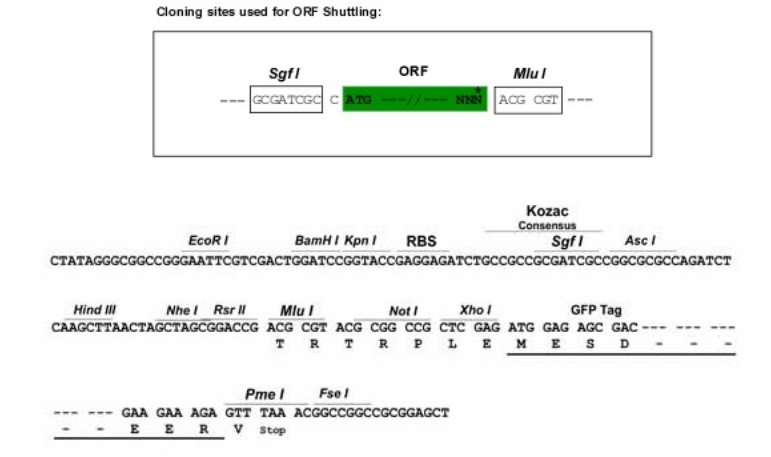
>RG204889 representing NM_183233
Red=Cloning site Green=Tags(s)

MQGARAPRDQGQSPGRMSALGRSSVILLTYVLAATELTCLFMQFSIVPYLSRKLGLDSIAFGYLQTTFGV
LQLLGGPVFGRFADQRGARAALTLSFLAALALYLLLAAASSPALPGVYLLFASRLPGALMHTLPAAQMVI
TDLSAPEERPAALGRLGLCFGVGVILGSLLGGTLVSAYGIQCPAILAALATLLGAVLSFTCIPASTKGAK
TDAQAPLPGGPRASVFDLKAIASLLRLPDVPRIFLVKVASNCPTGLFMVMFSIISMDFFQLEAAQAGYLM
SFFGLLQMVTQGLVIGQLSSHFSEEVLLRASVLVFIVVGLAMAWMSSVFHFCLLVPGLVFSLCTLNVVTD
SMLIKAVSTSDTGTMLGLCASVQPLLRTLGPTVGGLLYRSFGVPVFGHVQVAINTLVLLVLWRKPMPQRK
DKVR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_183233

ORF Size: 1272 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_183233.1, NP_899056.1

RefSeq Size: 1563 bp

RefSeq ORF: 1275 bp

Locus ID: 5002

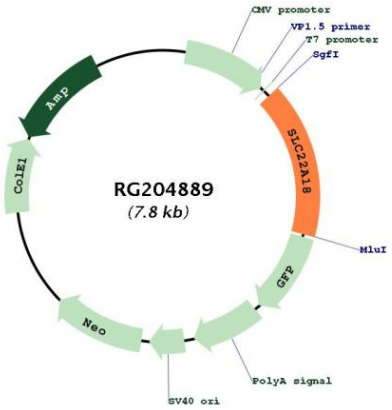
UniProt ID: Q96BI1

Cytogenetics: 11p15.4

Protein Families: Druggable Genome, Transmembrane

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]

Product images:



Circular map for RG204889