

Product datasheet for RC215352

SUR1 (ABCC8) (NM_000352) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SUR1 (ABCC8) (NM_000352) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABCC8
Synonyms:	ABC36; HHF1; HI; HRINS; MRP8; PHHI; PNDM3; SUR; SUR1; SUR1delta2; TNDM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215352 representing NM_000352 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTGGCCTTCTGCGGCAGCGAGAACCACTCGGCCGCTACCGGGTGGACCAGGGGGTCTCAACA
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Protein Sequence: >RC215352 representing NM_000352
 Red=Cloning site Green=Tags(s)

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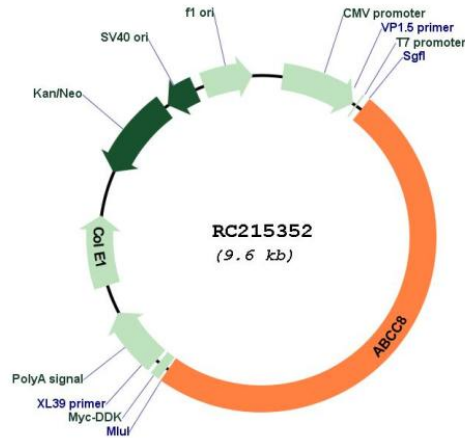
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2050_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_000352

ORF Size: 4743 bp

OTI Disclaimer: 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.

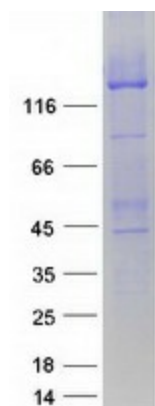
RefSeq: [NM_000352.6](#)

RefSeq Size: 4980 bp

RefSeq ORF:	4746 bp
Locus ID:	6833
UniProt ID:	Q09428
Cytogenetics:	11p15.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters, Type II diabetes mellitus
MW:	177.4 kDa

Gene Summary: The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MRP subfamily which is involved in multi-drug resistance. This protein functions as a modulator of ATP-sensitive potassium channels and insulin release. Mutations in the ABCC8 gene and deficiencies in the encoded protein have been observed in patients with hyperinsulinemic hypoglycemia of infancy, an autosomal recessive disorder of unregulated and high insulin secretion. Mutations have also been associated with non-insulin-dependent diabetes mellitus type II, an autosomal dominant disease of defective insulin secretion. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2020]

Product images:



Coomassie blue staining of purified ABCC8 protein (Cat# [TP315352]). The protein was produced from HEK293T cells transfected with ABCC8 cDNA clone (Cat# RC215352) using MegaTran 2.0 (Cat# [TT210002]).