

Product datasheet for **SC338074**

SUR1 (ABCC8) (NM_001287174) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SUR1 (ABCC8) (NM_001287174) Human Untagged Clone
Tag:	Tag Free
Symbol:	SUR1
Synonyms:	ABC36; HHF1; HI; HRINS; MRP8; PHHI; PNDM3; SUR; SUR1; SUR1delta2; TNDM2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001287174, the custom clone sequence may differ by one or more nucleotides

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ATGCCCTGGCCTTCTGCGGCAGCGAGAACCCTCGGCCGCTACCGGGTGGACCAGGGGTCTCAACA
ACGGCTGCTTTGTGGACGCGCTCAACGTGGTGCACAGCTCTTCTACTCTTCATCACCTTCCCCATCCT
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CATCTATACCTCCATCTCCATTTTCATGAACACGGCCATCCCCATTGCAGCTGTCCTCATAACTTTCGTG
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 CTGCGGCCGACCCGAGTGGGAAGTCTCCTTCTCTTGCCTTCTCCGCATGGTGGACACGTTTCGAA
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 TCATCCTGCAGGACCCCTCCTTTCAGCGGCACCATCCGATTTAACCTGGACCCCTGAGAGGAAGTGCTC
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 AGAAGCTGCTCAGCCGGAAGGACAGCGTCTTCGCTCCTTCGTCCGTGCAGACAAGTGA

Restriction Sites: SgfI-MluI
ACCN: NM_001287174

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).
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:	NM_001287174.1 , NP_001274103.1
RefSeq Size:	4938 bp
RefSeq ORF:	4749 bp
Locus ID:	6833
UniProt ID:	Q09428
Cytogenetics:	11p15.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters, Type II diabetes mellitus
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) uses two alternate in-frame splice sites in the 5' coding region compared to variant 3. The encoded isoform (1) is shorter than isoform 3.</p>