

## 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:	SUR1
Synonyms:	ABC36; HHF1; HI; HRINS; MRP8; PHH1; 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  
GCCCGCATCGCC

ATGCCCTGGCCTTCTGCGGCAGCGAGAACCCTCGGCCGCTACCGGGTGGACCAGGGGGTCTCAACA  
ACGGCTGCTTTGTGGACGCGCTCAACGTGGTGCCGCACGTCTTCTACTTTCATCACCTCCCCATCCT  
CTTCATTGGATGGGAAGTCAGAGCTCCAAGTGCACATCCACCACAGCACATGGCTTCATTTCCCTGGG  
CACAACCTGCGGTGGATCCTGACCTTCATGCTGCTCTTCGTCCTGGTGTGTGAGATTGCAGAGGGCATCC  
TGCTGATGGGGTGACCGAATCCACCATCTGCACCTGTACATGCCAGCCGGGATGGCGTTCATGGCTGC  
TGTACCTCCGTGGTCTACTATCACAACATCGAGACTTCCAACCTCCCAAGCTGCTAATTGCCCTGCTG  
GTGATTGGACCTGGCCTTCATCACCAGACCAAGTTCGCAAGTTTGTCAAGTTCTTGGACCACGCCATCGGT  
TCTCGCAGCTACGCTTCTGCCTCACAGGGCTGCTGGTATCCTCTATGGGATGCTGCTCCTCGTGGAGGT  
CAATGTCATCAGGGTGGAGAGATACATCTTCTTCAAGACACCGAGGGAGGTGAAGCTCCCGAGGACCTG  
CAAGACCTGGGGTACGCTTCTGCAGCCCTTCGTGAATCTGCTGTCAAAGGCACCTACTGGTGGATGA  
ACGCCCTCATCAAGACTGCCACAAGAAGCCATCGACTTGCAGCCATCGGGAAGTGGCCATCGCCAT  
GAGGGCCCTCACCACCTACCAACGGCTCTGCGAGGCCCTTTCGCGCCAGGTGCGGAAGGACATTGAGGC  
ACTCAAGGTGCCGGCCATCTGGCAGGCACTCAGCCATGCCTTCGGGAGGCGCCTGGTCCCTCAGCAGCA  
CTTCCGATCTTGGCCGACCTGCTGGGCTTCGCCGGCCACTGTGCATCTTTGGGATCGTGGACCACT  
TGGGAAGGAGAACGACGCTTCCAGCCCAAGACACAATTTCTCGGGGTTTACTTTGTCTCATCCCAAGAG  
TTCCTTGGCAATGCCTACGTCTTAGCTGTGCTTCTGTTCTTGCCTCCTACTGCAAAGGACATTTCTGC  
AAGCATCTACTATGTGGCCATTGAACTGGAATTAACCTGAGAGGAGCAATACAGACCAAGATTTACAA  
TAAATATGCACCTGTCCACCTCCAACCTGTCCATGGGAGAAATGACTGCTGGACAGATCTGTAATCTG  
GTTGCCATCGACACCAATCAGCTCATGTGGTTTTTCTTCTGTGCCAAACCTCTGGGCTATGCCAGTAC  
AGATCATTGTGGGTGTGATTCTCCTCTACTACATACTCGGAGTCAGTGCCTTAATTGGAGCAGCTGTCAT  
CATTCTACTGGCTCCTGTCCAGTACTTCGTGGCCACCAAGCTGTCTCAGGCCAGCGGAGCACACTGGAG



[View online >](#)

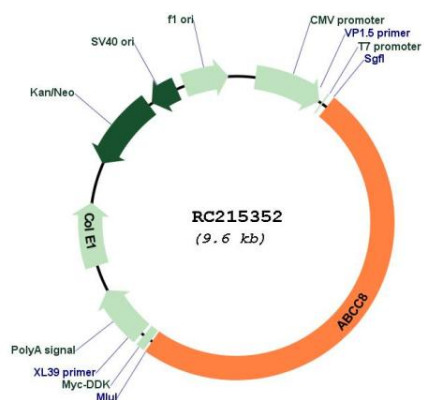
TATTCCAATGAGCGGCTGAAGCAGACCAACGAGATGCTCCGCGGCATCAAGCTGCTGAAGCTGTACGCC  
 GGGAGAACATCTTCCGCACGCGGGTGGAGACGACCCCGAGGAAGGAGATGACCAGCCTCAGGGCCTTTGC  
 CATCTATACCTCCATCTCCATTTTCATGAACACGGCCATCCCCATTGCAGCTGTCCCTATAACTTTTCGTG  
 GGCCACGTGAGCTTTTCAAAGAGGCCGACTTCTCGCCCTCCGTGGCCTTTGCCTCCCTCTCCCTTTCC  
 ATATCTTGGTACACCCGTGTTCTGTGTCCAGTGTGGTCCGATCTACCGTCAAAGCTCTAGTGAGCGT  
 GCAAAAAGCTAAGCGAGTTCCTGTCCAGTGCAGAGATCCGTGAGGAGCAGTGTGCCCCCATGAGCCCACA  
 CCTCAGGGCCAGCCAGCAAGTACCAGCGGTGCCCTCAGGGTGTGAACCGCAAGCCAGCCAGCCCGGG  
 AGGATTGTGGGGCCTCACCGGCCACTGCAGAGCCTGGTCCCCAGTGCAGATGGCGATGCTGACAACCTG  
 CTGTGTCCAGATCATGGGAGGCTACTTCACGTGGACCCAGATGGAATCCCCACACTGTCCAACATCACC  
 ATTCGTATCCCCGAGGCCAGCTGACTATGATCGTGGGGCAGGTGGGCTGCGGCAAGTCTCGTCTCTTC  
 TAGCCGCACTGGGGGAGATGCAGAAGGTCTCAGGGGTGTCTTCTGGAGCAGCCTTCTGACAGCGAGAT  
 AGGAGAGGACCCAGCCAGAGCGGGAGACAGCGACCGACTTGGATATCAGGAAGAGAGGGCCCCGTGGCC  
 TATGCTTCGCAGAAACCATGGCTGCTAAATGCCACTGTGGAGGAGAACATCATCTTTGAGAGTCCCTTCA  
 ACAAACAACGGTACAAGATGGTCATTGAAGCCTGCTCTCTGCAGCCAGACATCGACATCCTGCCCATGG  
 AGACCAGACCCAGATTGGGGAACGGGGCATCAACCTGTCTGGTGGTCAACGCCAGCGAATCAGTGTGGCC  
 CGAGCCCTCTACCAGCAGCCAACTGTCTTCTTGGATGACCCCTTCTAGCTCTGGATATCCATCTGA  
 GTGACCACTTAATGCAGGCCGGCATCCTTGAGCTGCTCCGGGACGACAAGAGGACAGTGGTCTTAGTGAC  
 CCAACAGTACAGTACCTGCCCATGCAGACTGGATCATTGCCATGAAGGATGGCACCATCCAGAGGGAG  
 GGTACCCCAAGGACTTCCAGAGGTCTGAATGCCAGCTCTTTGAGCACTGGAAGACCCTCATGAACCGAC  
 AGGACCAAGAGCTGGAGAAGGAGACTGTACAGAGAGAAAAGCCACAGAGCCACCCAGGGCCTATCTCG  
 TGCCATGTCTCGAGGGATGGCCTTCTGCAGGATGAGGAAGAGGGAAGAGGAGGCAGCTGAGAGCGAG  
 GAGGATGACAACCTGTGTCATGTGCACCAGCGTGTGAGATCCCATGGCAGCCTGCCCAAGTACC  
 TGTCTCCGCCGGCATCCTGCTCCTGTGTTGCTGGTCTTCTCACAGCTGCTCAAGCACATGGTCTGGT  
 GGCCATCGACTACTGGCTGGCCAAGTGGACCGACAGCGCCCTGACCCTGACCCCTGCAGCCAGGAACCTGC  
 TCCTCAGCCAGGAGTGACCCCTCGACCAGACTGTCTATGCCATGGTGTTCACGGTGTCTGACAGCTGG  
 GCATTGTGCTGTGCCTCGTCACTGTGTACTGTGGAGTGGACAGGGCTGAAGGTGGCCAAGAGACTGCA  
 CCGCAGCCTGCTAAACCGGATCATCCTAGCCCCATGAGGTTTTTTGAGACCACGCCCTTGGGAGCATC  
 CTGAACAGATTTTTCATCTGACTGTAACACCATCGACCAGCACATCCCATCCACGCTGGAGTGCCTGAGCC  
 GCTCCACCCTGCTGTGTCTCAGCCCTGGCCGTATCTCCTATGTCACACCTGTGTTCTCGTGGCCCT  
 CTTGCCCTGGCCATCGTGTGCTACTTCATCCAGAAGTACTTCCGGGTGGCGTCCAGGGACCTGCAGCAG  
 CTGGATGACACCACCCAGCTTCCACTTCTCTCACACTTTGCCGAAACCGTAGAAGGACTCACCACCATCC  
 GGGCCTTCAGGTATGAGGCCCGGTTCCAGCAGAAGCTTCTCGAATACACAGACTCCAACAACATTGCTTC  
 CCTCTTCTCACAGCTGCCAACAGATGGCTGGAAGTCCGAATGGAGTACATCGGTGCATGTGTGGTGTCTC  
 ATCGCAGCGGTGACCTCCATCTCCAACCTCCCTGCACAGGGAGCTCTCTGCTGGCCTGGTGGCCCTGGCC  
 TTACCTACGCCCTAATGGTCTCCAACCTCACTCACTGGATGGTGGGAACCTGGCAGACATGGAGCTCCA  
 GCTGGGGGCTGTGAAGCGCATCCATGGGCTCCTGAAAACCGAGGCAGAGAGCTACGAGGGGCTCCTGGCA  
 CCATCGCTGATCCAAAGAACTGGCCAGACCAAGGAAGATCCAGATCCAGAACCTGAGCGTGGCCTACG  
 ACAGCTCCCTGAAGCCGGTGTGAAGCACGTCAATGCCCTCATCGCCCTGGACAGAAGATCGGGATCTG  
 CGGCCACCCGGCAGTGGGAAGTCTCCTTCTCTTCTTCCGCTTCTCCGCATGGTGGACACGTTTCAAGGG  
 CACATCATCATTGATGGCATTGACATCGCCAAACTGCCGCTGCACACCCTGCGTCAAGCCTCTCCATCA  
 TCTGACAGGACCCGTCCTTTCAGCGGACCATCCGATTTAACCTGGACCCCTGAGAGGAAGTGTCTCAGA  
 TAGCACACTGTGGGAGGCCCTGGAAATCGCCAGCTGAAGCTGGTGGTGAAGGCACTGCCAGGAGCCCTC  
 GATGCCATCATCAGAAGGCGGGGAGAAATTCAGCCAGGGACAGAGGCAGCTGTTCTGCTGGCCCGGG  
 CCTTCGTGAGGAAGACCAGCATTTTCATCATGGACGAGGCCACGGCTTCCATTGACATGGCCACGGAAAA  
 CATCCTCCAAAAGGTGGTGTGACAGCCTTCGACAGCCGACTGTGGTCAACATCGCGCATCGAGTGCAC  
 ACCATCCTGAGTGCAGACCTGGTGTGCTCCTGAAGCGGGGTGCCATCCTTGAGTTCGATAAGCCAGAGA  
 AGCTGCTCAGCCGAAGGACAGCGTCTTCGCTCCTTCGTCCGTGCAGACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

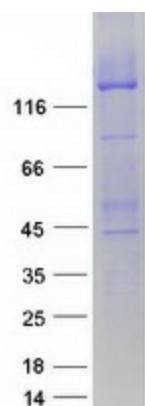


<b>ORF Size:</b>	4743 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000352.6</a>
<b>RefSeq Size:</b>	4980 bp
<b>RefSeq ORF:</b>	4746 bp
<b>Locus ID:</b>	6833
<b>UniProt ID:</b>	<a href="#">Q09428</a>
<b>Cytogenetics:</b>	11p15.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	ABC transporters, Type II diabetes mellitus
<b>MW:</b>	177.4 kDa
<b>Gene Summary:</b>	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:



Circular map for RC215352



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]).