

## Product datasheet for **TP315352L**

### **SUR1 (ABCC8) (NM\_000352) Human Recombinant Protein**

#### **Product data:**

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 8 (ABCC8), 1 mg
Species:	Human
Expression Host:	HEK293T



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**Expression cDNA Clone or AA Sequence:** >RC215352 representing NM\_000352  
Red=Cloning site Green=Tags(s)

MPLAFCGSENHSAAYRVDQGVLNNGCFVDALNVVPHVFLFITFPILFIGWGSQSSKVHIIHSTWLHFPG  
 HNLRWILTFMLLFVLVCEIAEGILSDGVTESHHLHLYMPAGMAFMAAVTSVYHYHNIETSNFPKLLIALL  
 VYWTLAFITKTIKFKFLDHAIGFSQLRFCLTGLLVILYGMLLLVEVNVIRVRRYIFFKTPREVKPPEDL  
 QDLGVRFLQPFVNLLSKGTYWWMNAFIKTAHKKPIDLRAIGKLPAMRALTNYQRLCEAFDAQVRKDIQG  
 TQGARAIWQALSHAFGRRLVLSSTFRILADLLGFAGPLCIFGIVDHLGKENDVFQPKTQFLGVYFVSSQE  
 FLANAYVLAVLLFLALLLQRTFLQASYVVAIETGINLRGAIQTKIYNKIMHLSTSNLSMGEMTAGQICNL  
 VAIDTNQLMWFFFLCPNLWAMPVQIIVGVILLYILGVSALIGAAVILLAPVQYFVATKLSQAQRSTLE  
 YSNERLKQTNEMLRGIKLLKLYAWENIFRTRVETRRKEMTSLRAFAIYTSISIFMNTAIPAAVLITFV  
 GHVSFFKEADFSPSAFASLSLFHILVTPFLSSVVRSTVKALVSVQKLSEFLSSAEIREEQCAPHEPT  
 PQGPASKYQAVPLRVNRKRPAREDCRGLTGPLQSLVPSADGDADNCCVQIMGGYFTWTPDGIPTLSNIT  
 IRIPRGQLTMIVGQVCGKSSLLAALGEMQKVSGAVFWSSLPDSEIGEDPSPERETATDLDIRKRGVA  
 YASQKPWLLNATVEENIIFESPFNKQRYKMVIEACSLQPDIDILPHGDQTQIGERGINLSGGQRQRISVA  
 RALYQHANVVFLDDPFSAIDHLSDHLMQAGILELLRDDKRTVVLVTHKLQYLPHADWIIAMKDGTIQRE  
 GTLKDFQRSECFEHWKTLMNRQDQELEKETVTERKATEPPQGLSRAMSSRDGLLQDEEEEEEEAAESE  
 EDDNLSSMLHQRAEIPWRACAKYLSSAGILLSSLLVFSQLLKHMVLAIDYWLAKWTDLSALTTPAARNC  
 SLSQECTLDQTYAMVFTVLCSLGIVLCLVTSVTVEWTGLKVAKRLHRSLLNRIILAPMRFETTPLGSI  
 LNRFSDCNTIDQHIPSTLECLSRSTLLCVSALAVISYVTPVFLVALLPLAIVCYFIQKYFRVASRDLQQ  
 LDDTTQLPLLSHFAETVEGLTTIRAFRYEARFQKLELYTDSNNIASLFLTAANRWLEVRMEYIGACVVL  
 IAAVTSISNSLHRELSAGLVGLGLTYALMVSNYLNMVVRNLADMELQLGAVKRIHGLLKTEAESYEGLLA  
 PSLIPKNWPDQGGKIQIQLNSVRYDSSLKPVLLKHNALAPGQKIGICGRTGSGKSSFSLAFFRMVDTFEG  
 HIIIDGIDIAKPLHLTLRSLSIILQDPVLFSGTIRFNLDPERKCSDSLWEALEIAQLKLVKALPGGL  
 DAIITEGGENFSQGRQLFCLARAFVRKTSIFIMDEATASIDMATENILQKVMTAFADRTVTIAHRVH  
 TILSADLVIVLKRGAILEFDKPEKLLSRKDSVFASFVRADK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 176.8 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP\\_000343](#)

Locus ID: 6833

UniProt ID: [Q09428](#)

RefSeq Size: 4980

Cytogenetics: 11p15.1

RefSeq ORF: 4743

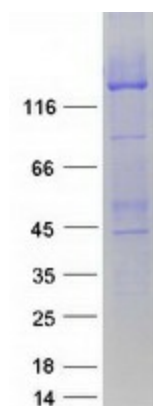
Synonyms: ABC36; HHF1; HI; HRINS; MRP8; PHHI; PNDM3; SUR; SUR1; SUR1delta2; TNDM2

**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]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** ABC transporters, Type II diabetes mellitus

### 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]).