

Product datasheet for **TP315352**

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), 20 µg
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
 YSNERLKQTNEMLRGIKLLKLYAWENIFRTRVETTRRKEMTSLRAFAIYTSISIFMNTAIPAAVLITFV
 GHVSFFKEADFSPSVAFASLSLFHILVTPFLSSVVRSTVKALVSVQKLSEFLSSAEIREEQCAPHEPT
 PQGPASKYQAVPLRVNRKRPAREDCRGLTGPLQSLVPSADGDADNCCVQIMGGYFTWTPDGIPTLSNIT
 IRIPRGQLTMIVGQVCGKSSLLAALGEMQKVSGAVFWSSLPDSEIGEDPSPERETATDLDIRKRGVPA
 YASQKPWLLNATVEENIIFESPFNKQRYKMVIEACSLQPDIDILPHGDQTQIGERGINLSGGQRQRISVA
 RALYQHANVVFLDDPFSALDIHLSDHLMQAGILELLRDDKRTVVLVTHKLQYLPHADWIIAMKDGTIQRE
 GTLKDFQRSECFEHWKTLMNRQDQELEKETVTERKATEPPQGLSRAMSSRDGLLQDEEEEEEEAAESE
 EDDNLSSMLHQRAEIPWRACAKYLSSAGILLSSLLVFSQLLKHMVLAIDYWLAKWTDLSALTTPAARNC
 SLSQECTLDQTYAMVFTVLCSLGIVLCLVTSVTVEWTGLKVAKRLHRSLLNRIILAPMRFFETPLGSI
 LNRFSDCNTIDQHIPSTLECLSRSTLLCVSALAVISYVTPVFLVALLPLAIVCYFIQKYFRVASRDLQQ
 LDDTTQLPLLSHFAETVEGLTTIRAFRYEARFQKLELYTDSNNIASLFLTAANRWLEVRMEYIGACVVL
 IAAVTSISNSLHRELSAGLVGLGLTYALMVSNYLNMVMVRNLADMELQLGAVKRIHGLLKTEAESYEGLLA
 PSLIPKNWPDQGGKIQIQNLSVRYDSSLKPVLLKHNALAPGQKIGICGRTGSGKSSFSLAFFRMVDTFEG
 HIIIDGIDIAKPLHLTLRSLSIILQDPVLFSGTIRFNLDPERKCSDSLWEALEIAQLKLVKALPGGL
 DAIITEGGENFSQGRQLFCLARAFVRKTSIFIMDEATASIDMATENILQKVMTAFADRTVVTIAHRVH
 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

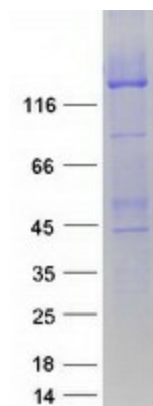
Synonyms: ABC36; HHF1; HI; HRINS; MRP8; PHHI; PNDM3; SUR; SUR1; SUR1delta2; TNDM2

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]).