

## Product datasheet for **TP310938**

### **GIRK2 (KCNJ6) (NM\_002240) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human potassium inwardly-rectifying channel, subfamily J, member 6 (KCNJ6), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210938 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAKLTESMTNVLEGDSMDQDVESPVAIHQPKLPKQARDDLPRHISRDRTRKRIQRYVRKDGKCNVHHGNV  
RETYRYLTDIFTTLVDLKWRFNLLIFVMVYTVTWLFFGMIWWLIAYIRGDMDHIEDPSWTPCVTNLNGFV  
SAFLSIETETTIGYGRVITDKCPEGIILLIQSVLGSIVNAFMVGC MFVKISQPKKRAETLVFSTHAV  
ISMRDGKLCLMFRVGDRLNRSHIVEASIRAKLIKSKQTSEGEFIPLNQTDINVGYYTGDDRLFVSPLIIS  
HEINQQSPFWEISKAQLPKEELEIVILEGMVEATGMTCQARSSYITSEILWGYRFTPVLTLLEDGFYEVD  
YNSFHETYETSTPSSAKELAEASRAELPLSWSVSSKLNQHAETEETEEENLEEQTERNGDVANLENE  
SKV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	48.3 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.



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RefSeq: [NP\\_002231](#)

Locus ID: 3763

UniProt ID: [P48051](#)

RefSeq Size: 2537

Cytogenetics: 21q22.13

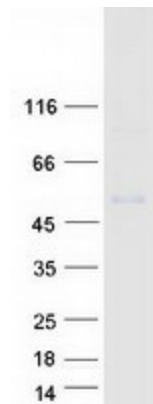
RefSeq ORF: 1269

Synonyms: BIR1; GIRK-2; GIRK2; hiGIRK2; KATP-2; KATP2; KCNJ7; KIR3.2; KPLBS

**Summary:** This gene encodes a member of the G protein-coupled inwardly-rectifying potassium channel family of inward rectifier potassium channels. This type of potassium channel allows a greater flow of potassium into the cell than out of it. These proteins modulate many physiological processes, including heart rate in cardiac cells and circuit activity in neuronal cells, through G-protein coupled receptor stimulation. Mutations in this gene are associated with Keppen-Lubinsky Syndrome, a rare condition characterized by severe developmental delay, facial dysmorphism, and intellectual disability. [provided by RefSeq, Apr 2015]

**Protein Families:** Druggable Genome, Ion Channels: Potassium, Transmembrane

### Product images:



Coomassie blue staining of purified KCNJ6 protein (Cat# TP310938). The protein was produced from HEK293T cells transfected with KCNJ6 cDNA clone (Cat# [RC210938]) using MegaTran 2.0 (Cat# [TT210002]).