

## Product datasheet for **TP314602M**

### **Kv beta 2 (KCNAB2) (NM\_172130) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human potassium voltage-gated channel, shaker-related subfamily, beta member 2 (KCNAB2), transcript variant 2, 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA</b>	>RC214602 representing NM_172130
<b>Clone or AA Sequence:</b>	Red=Cloning site Green=Tags(s)

MYPESTTGSPARLSLRQTGSPGMIYRNLGKSGLRVSLGLGTWVTFGGQITDEMAEQLMTLAYDNGINLF  
DTAEVYAAGKAEVVLGNIKKKGGWRRSSLVITTKIFWGGKAETERGLSRKHIIIEGLKASLERLQLEYVDV  
VFANRPDPNTPMEETVRAMTHVINQGMAMYWGTSRWSSMEIMEAYSVARQFNLTTPICEQAEYHMFQREK  
VEVQLPELFHKIGVGMAMTWSPLACGIVSGKYDSGIPPYSRASLKGQWLKDKILSEEGRQQAQKLKELQA  
IAERLGCTLPQLAIWCLRNEGVSLLGASNADQLMENIGAIQVLPKLSIIHEIDSILGNPKPYSKKD  
YRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	39.1 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_742128</a></u>



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Locus ID: 8514

UniProt ID: [Q13303](#), [B2R776](#)

RefSeq Size: 3129

Cytogenetics: 1p36.31

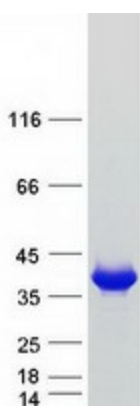
RefSeq ORF: 1059

Synonyms: AKR6A5; HKvbeta2; HKvbeta2.1; HKvbeta2.2; KCNA2B; KV-BETA-2

**Summary:** Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in *Drosophila*, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member is one of the beta subunits, which are auxiliary proteins associating with functional Kv-alpha subunits. This member alters functional properties of the KCNA4 gene product. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Dec 2010]

**Protein Families:** Druggable Genome, Ion Channels: Other

### Product images:



Coomassie blue staining of purified KCNA2 protein (Cat# [TP314602]). The protein was produced from HEK293T cells transfected with KCNA2 cDNA clone (Cat# [RC214602]) using MegaTran 2.0 (Cat# [TT210002]).