

## Product datasheet for PH314602

### Kv beta 2 (KCNAB2) (NM\_172130) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	KCNAB2 MS Standard C13 and N15-labeled recombinant protein (NP_742128)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214602
Predicted MW:	39.1 kDa
Protein Sequence:	>RC214602 representing NM_172130 Red=Cloning site Green=Tags(s)

MYPESTTGSPARLSLRQTGSPGMIYRNLGKSGLRVSCLGLGTWVTFGGQITDEMAEQMLTLAYDNGINLF  
DTAEVYAAGKAEVVLGNIKKKGWRRSSLVITTKIFWGGKAETERGLSRKHIIIEGLKASLERLQLEYVDV  
VFANRPDPNTPMEETVRAMTHVINQGMAMYWGTSRWSSMEIMEAYSVARQFNLTPIICEQAEYHMFQREK  
VEVQLPELFHKIGVGAMTWSPLACGIVSGKYDSGIPPYSRASLKGQWLKDKILSEEGRQQAKLKELQA  
IAERLGCTLPQLAIAWCLRNEGVSLLGASNADQLMENIGAIQVLPKLSSSIIEHIDSILGNPKPYSKD  
YRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_742128</a></u>
RefSeq Size:	3129
RefSeq ORF:	1059
Synonyms:	AKR6A5; HKvbeta2; HKvbeta2.1; HKvbeta2.2; KCNA2B; KV-BETA-2
Locus ID:	8514



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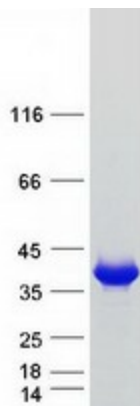
UniProt ID: [Q13303](#), [B2R776](#)

Cytogenetics: 1p36.31

**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]).