

## Product datasheet for **SC326745**

### KCNMB3 (NM\_001163677) Human Untagged Clone

#### Product data:

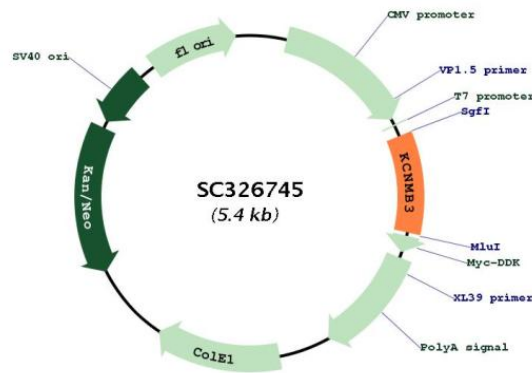
Product Type:	Expression Plasmids
Product Name:	KCNMB3 (NM_001163677) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNMB3
Synonyms:	BKBETA3; HBETA3; K(VCA)BETA-3; KCNMB2; KCNMBL; SLO-BETA-3; SLOBETA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326745 representing NM_001163677. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGCCCTTCAGCATCCCCGTGCAAATCACACTTCAGGGCAGCCGGAGGCGCCAGGGGAGGACAGCC
TTTCCTGCCTCAGGGAAGAAGAGAGAGACAGACTACAGTGATGGAGACCCACTAGATGTGCAACAAGAGG
CTGCCATCCAGTGCTGGAGAGGACCGAGCCGTGATGCTGGGGTTTGCCATGATGGGCTTCTCAGTCCTA
ATGTTCTTCTTGCTCGGAACAACCATTCTAAAGCCTTTTATGCTCAGCATTTCAGAGAGAAGAATCGACC
TGCCTGCCATCCACACAGATATCATGGACGACTGGCTGGACTGTGCCTTCACCTGTGGTGTGCACTGC
CACGGTCAGGGGAAGTACCCGTGCTTTCAGGTGTTTGTGAACCTCAGCCATCCAGGTGAGAAAGCTCTC
CTACATTATAATGAAGAGGCTGTCCAGATAAATCCAAGCGTGATTTACAGACTGCAGAGTTAAAGAA
AAGCAGACATTGACAGTTTCTGATGAGCATAAACAGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCC
```

Restriction Sites: Sgfl-MluI



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**Plasmid Map:**


**ACCN:** NM\_001163677

**Insert Size:** 522 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001163677.1](#)

**RefSeq Size:** 1123 bp

**RefSeq ORF:** 522 bp

**Locus ID:** 27094

**UniProt ID:** [Q9NPA1](#)

**Cytogenetics:** 3q26.32

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

**Protein Pathways:** Vascular smooth muscle contraction

**MW:** 19.5 kDa

**Gene Summary:** MaxiK channels are large conductance, voltage and calcium-sensitive potassium channels which are fundamental to the control of smooth muscle tone and neuronal excitability. MaxiK channels can be formed by 2 subunits: the pore-forming alpha subunit and the modulatory beta subunit. The protein encoded by this gene is an auxiliary beta subunit which may partially inactivate or slightly decrease the activation time of MaxiK alpha subunit currents. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 22. [provided by RefSeq, Jul 2009]  
Transcript Variant: This variant (5) differs in both UTRs and in both the 5' and 3' coding regions, and uses an alternate translational start codon, compared to variant 4. The resulting isoform (e) has distinct N- and C-termini and is shorter than isoform d.