

## Product datasheet for **MG220187**

### Kcng3 (NM\_153512) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcng3 (NM_153512) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kcng3
Synonyms:	KV6.3; Kv10.1a; Kv10.1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220187 representing NM_153512 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCTCGGGCGGGGGGGCGGCTCGGTGGTGTGAACGTGGGCGGCGCCCGTACTCGTGTCCC  
GGGAGCTGCTCAAGGACTTCCCCTGCGCCGCGTGAGCCGGTGCACGGTGCCTCGGAGCGGACGT  
GCTCGAAGTGTGCGAGACTACGACCGGGAGCGCAACGAGTACTTCTCGACCGACTCGGAGGCCTTC  
GGCTTCATCCTGTGTACGTGCGCGGCCACGGAAAGTGCCTCGCGCCGGATGTGCGAGCTCTCT  
TCTACAACGAGATGATCTACTGGGGCTGGAGGTGCGCACCTGGAGTACTGCTGCCAGCGCCGCTAGA  
CGACCGCATGTCCGACACCCACACCTTTCACGCGGAGAGAGCTGGGCCGCGAGCAGCCTCGTCCCGCC  
GGACCCGAGGCGGCCCTCCCGCGCTGGCTGGAGCGCATGCGGCGGACCTTCGAGGAGCCACGTCGT  
CGCTGGCCGCGCAGATCCTGGCCAGCGTGTCCGTGGTGTTCGTGATCGTGTCCATGGTGGTGTGTGCGC  
CAGCAGCTGCCGACTGGCGTGCAGCGGTTGCTGACAACCGCAGTCTGGATGACCGGAGCAGGACTCC  
GCCAGCCCTGGGAGGGAACCTCCGGGATAATTGAAGTATCTGCATAGGGTGGTTCACCGCGGAGTGCA  
TCGTGCGGTTTCATCGTCTCCAAAAACAAGTGTGAGTTTGTCAAGAGACCCTGAACATCATTGACTTACT  
GGCAATCAGCCCTATTACATCTCTGTGCTAATGACAGTGTTCACAGGCGAGAATCTCAACTCCAGAGG  
GCTGGGTCACCTTGAGGTCTCCGAATGATGCGGATCTTCTGGGTGATCAAGCTTGCCCGGCACCTCA  
TTGGTCTGCAGACACTGGGCTTGACTCTCAAGCGATGCTACCGAGAGATGGCTATGTTACTTGTCTTCAT  
CTGTGTTGCCATGGCAATCTTTAGTGCCTCTCTCAGCTCCTTGAACATGGGCTGGACCTGGAAACATCC  
AACAAAGGATTTCCGAGCATCCCGCTGCCTGCTGGTGGTGTATTATCTATGACTACAGTTGGCTATG  
GAGATATGTATCCTATCACGGTGCCTGGAAGAATTCTTGAGGAGTTTGTGTTGTCAGTGGGATTGTTCT  
GTTGGCATTACCCATCACTTTCATCTACCATAGCTTTGTGCAGTGCTACCACGAGCTCAAGTTTAGATCG  
GCTAGATATAGTAGGAGCTCTCAGCTGAGTTCCTGAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG220187 representing NM\_153512  
Red=Cloning site Green=Tags(s)

MTFGRGGAASVVLNVGGARYSLSRELLKDFPLRRVSR LHGCRSERDVLVCCDDYDRERNEYFFDRHSEAF  
 GFILLYVRGHGKLRFAPRMCELSFYNEMIYWGLEGHALEYCCQRR LDDRMSDTHTFHADELGREQPRPA  
 GPEAAPSRRWLERMRRTFEPTSSLAAQILASVSVVFIIVSMVVLCASTLPDWRAAVADNRSLDDRSRYS  
 ASPGREPSGIIIEAICIGWFTAECIVRFIVSKNKCE FVKRPLNIIDLLAITPYIISVLMTVFTGENSQLQR  
 AGVTLRVLRRMRFVWIKLARHF IGLQTLGLTLKRCYRE MAMLLVFCVAMAI FSALSQLEHGLDLETS  
 NKDFASIPAACWVVIISM TTVGYGDMYPITVPGRI LGGVCVSGIVLLALPITFIYHSFVQCYHELKFRS  
 ARYSRSLSAEFLN

TRTRPLE - GFP Tag - V

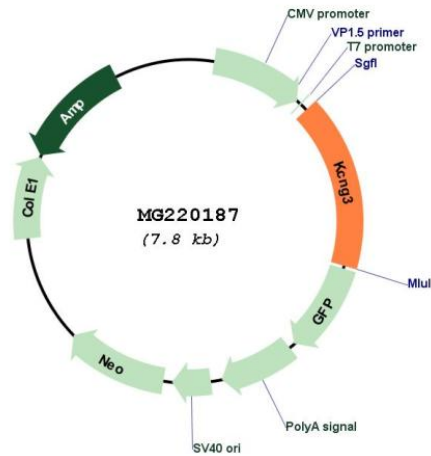
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_153512

<b>ORF Size:</b>	1299 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_153512.1</a> , <a href="#">NP_705732.1</a>
<b>RefSeq Size:</b>	3356 bp
<b>RefSeq ORF:</b>	1302 bp
<b>Locus ID:</b>	225030
<b>UniProt ID:</b>	<a href="#">P59053</a>
<b>Cytogenetics:</b>	17 E4
<b>Gene Summary:</b>	Potassium channel subunit that does not form functional channels by itself. Can form functional heterotetrameric channels with KCNB1; modulates the delayed rectifier voltage-gated potassium channel activation and deactivation rates of KCNB1.[UniProtKB/Swiss-Prot Function]