

Product datasheet for **MG209118**

Pxk (BC016131) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pxk (BC016131) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pxk
Synonyms:	C230080L11Rik; D14Ert813e; MONaKA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209118 representing BC016131
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTTCATGGAGAAGCCGCGCTGGCAAGGTGCTGCTGGACGACACGGTGCCGCTGACAGCGGCCG
 TCGAGGCGAGCCAGAGTCTGCAGTCGCACACGGAATATATCATCCGGGTGCAAAGAGGAATTTCTGCAGA
 AAACAGCTGGCAGATCGTCAGAAGATACAGCGACTTCGATCTGCTTAACAACAGCTTGCAAATTACAGGC
 CTGAGCCTGCCTCTTCTCCTAAGAAACTGATTGGAAACATGGACCGTGAGTTCATCGTGAGAGGCAGC
 GAGGCCTGCAGAACTACCTAACGTCAATCATGGCAAATCATGTCTTGCCAACTGTGAGCTGCTTAAGAA
 GTTCTAGACCCAAACAATACTGCAAACTATACTGAGATCGCCTTACAGCAGGTTTCCATGTTCTTC
 CGATCAGAACCAAAGTGGGAGGTGTAAGCACTGAAGGACATAGGTTGGAGGATAAGGAAGAAATATT
 TCTTGATGAAAAAATAAAACCAACCAAGGAGCGGCTGGTCTAAGCTGGGCTGATCTTGCCAGACAA
 GTACTTGTGAGATAAAGATTTTTCAGTGTCTAATCAAACCTTCTGCCTTCTGTGTGCACCCTTACATCTAT
 CGGGTACCTTTGCCACGGCTAGTGAGTCTCCGATTGCTGATTAGAGCCTTAAATGAGAAGGGAACCT
 TGAAGGATCTGATCTACAAGGCAAAACCAAGGACCCCTTCTAAAGAAACTGCAACCCTAAGAAAAAC
 CCAGGGCCTTGAAGTCCAGCAAAATAAAACATATGGGCGGCAGATATTAGAGGCACTAAAGTTTCTTCAT
 GACAAGGATTCCTTACGGCCACCTCCATGCAGCCAATGTGATGCTGGATGGCAACACTTGCCGGCTGC
 TAGACCTCGAAAACCTACTGCTGGGTCTGCCTTCTTCTACCGATCTACTTCACACAATTCAGGAAAAAT
 CAATACATTGGAGAGTGTAGATGTGCACTGTTTTGCCACTTACTCTATGAAATGACTTATGGACGACCT
 CCCGATCCGTGCCTGTGGACTCCTTCTCCTGCATCATCTTGGCTGTGGTGGCCGATTGGAGTCTA
 CGCTGTCTGTGAAGCCTGTAAAAATGGCATGCCTACCGTCTCCGGCTCTTACAGATGCCATTATTCAG
 TGATGTTTTACTAACAACCTCTGAAAAGCCACAGTTTAAGATTCCACAAAACTAAAAGAGGCATTGCGA
 ATTGCCAAGGAATGCATAGAGAAGAGACTCACCGAGGAACAGAAGCAGATTACACAGCATCGAAGACTAA
 CGAGAGCCAGTCACACCATGGGTCTGAGGAAGAAAGGAAAAGGAGAAAGATCTTAGCTCGAAAAGAGTC
 AAAACGATCTGCTGTTGAAAACAGTGGAGGAGCAGCCAGTGAAGCACAGTAACTCCAATAACTCAGCAGGA
 TCTGGGGCCAGCTCACCTCTCACATCCCCATCATCTCCAACCTCCACCGTCCACAGCAGGACTGTCTTCAG
 CATTACCTCCACCTCTCCGCCACCTCTCCTCCACCTCCACCAGCAGGTCCTCGCCAACCTCAGCCAC
 GGAGACGCTGCTCCGTTCTGCCCCAGCTGTGAATGGTGTGAACCGTGGGGCTTGTCTAGTTCATC
 CAGAATTTCCAAAAGGGAACCTTTCGGGAAAGCCAAACCTGTGATCACAGCGCTCCAAGATCGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209118 representing BC016131
 Red=Cloning site Green=Tags(s)

MAFMEKPPAGKVLLDDTVPLTAAVEASQSLQSHTYEYIIRVQRGISAENSWQIVRRYSDFDLLNNSLQITG
 LSLPLPPKLIIGNMDREFIAERQRLQNYLNVIMANHVLSNCELLKFLDPNNYSANYTEIALQQVSMFF
 RSEPKWEVVEPLKDIGWRIRKKYFLMKIKNQKERLVLSWADLGPDKYLSKDFQCLIKLLPSCVHPYIY
 RVTFATASESSALLIRAFNEKGLKDLIYKAKPKDPFLKCYCNPKKTQGLELQQIKTYGRQILEALKFLH
 DKGFYPYGLHAANVMDGNTCRLLDLENSLLGLPSFYRSYFTQFRKINTLESVDVHCFGHLLYEMTYGRP
 PDSVPVDSFPPASSLAVVAVLESTLSCEACKNGMPTVSRLLQMPLFSDVLLTTSEKQFKIPTKLKEALR
 IAKECIEKRLTEEQKQIHQHRRLTRAQSHHGSEERKRRKILARKKSKRSAVENSEEQPVKHSNSNSAG
 SGASSPLTSPSSPTPPSTAGLSSALPPPPPPPPPPPPAGPSPTSATETPAPFLPQPVNGVNRGALLSSI
 QNFQKGTLRKAQTCDSAPKIG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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:	BC016131 , AAH16131
RefSeq Size:	2793 bp
RefSeq ORF:	1748 bp
Locus ID:	218699
Cytogenetics:	14 4.7 cM
Gene Summary:	Binds to and modulates brain Na,K-ATPase subunits ATP1B1 and ATP1B3 and may thereby participate in the regulation of electrical excitability and synaptic transmission. May not display kinase activity.[UniProtKB/Swiss-Prot Function]