

## Product datasheet for MR204854

### Pbk (NM\_023209) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pbk (NM_023209) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pbk
Synonyms:	2810434B10Rik; AW538537; D14Ertd732e; TOPK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204854 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGGAATTAATAATTTCAAGACGCCAAACAAATCTGAAAAAGGAAATCTGTATTATGTTCCACTC  
CATGTGTAATATCCCTGCCTCTCCATTTATGCAGAAGCTTGGCTTTGGGACTGGGGTCAGCGTTTACCT  
AATGAAAAGATCTCCAAGAGGGTTGTCTCATTCTCCTTGGCCGTGAAAAAGATAAGTCTTTTATGCGAT  
GATCATTATCGAAGTGTATCAGAAGAGACTAACTGATGAAGCTAAGATTTTAAAAACCTTAATCACC  
CAAACATTATAGGATATCGTGCTTTTACTGAAGCCAGTATGGTAGTCTGTGCCTTGCTATGGAGTATGG  
AGGTGAAAAGTCTCTGAATGACTTAATAGAAGAGCGGAACAAAGACAGTGGAAAGTCTTTTCCAGCAGCT  
GTAATTCTCAGAGTTGCTTTGCACATGGCCAGAGGGCTAAAGTACCTGCACCAAGAAAAGAAGCTGCTTC  
ATGGAGACATAAAGTCTTCAAATGTTGTAATTAAGGTGATTTTGAACAATTAATCTGTGATGTAGG  
AGTCTCTCTGCCATTGGATGAAAATATGACTGTGACTGATCCTGAGGCCTGTTATATTGGTACTGAGCCA  
TGGAAACCAAGGAAGCGTTGGAAGAAAATGGCATCATTACTGACAAGGCAGATGTGTTTGGCTTTGGCC  
TTACTCTGTGGGAAATGATGACTTTATGTATTCCACACGTCATCTTCCAGATGATGATGTTGATGAAGA  
TGCAACCTTTGATGAGAGTGACTTCGATGATGAAGCATATTATGCAGCTCTGGGACAAGGCCATCCATC  
AACATGGAAGAGCTGGATGACTCCTACCAGAAGGCCATTGAACTCTTGTGTGTGCACTAATGAGGATC  
CTAAAGATCGCCCGTCTGCTGCACACATCGTTGAAGCTTTGGAAGTCTGATGGCCAATGTTGTGGTCTAAG  
CTCAAAGCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204854 protein sequence  
Red=Cloning site Green=Tags(s)

MEGINNFKTPNKSEKRKSVLCSTPCVNIPASPFMQKLGFGTGVSVYLMKRSPRGLSHSPWAVKKISLLCD  
 DHYRTVYQKRLTDEAKILKLNHPNIIGYRAFTEASDGLCLAMEYGGKSLNDLIEERNKDSGSPFPAA  
 VILRVALHMARGLKYLHQEKLLHGDIKSSNVVIKGFETIKICDVGVSPLDENMTVTDPEACYIGTEP  
 WKPKEALEENGIITDKADVFAFGLTLWEMMTLCIPHVNLPDDDDVEDATFDESDFDDEAYYAALGTRPSI  
 NMEELDDSYQKAIELFCVCTNEDPKDRPSAAHIVEALELDGQCCCLSSKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_023209

**ORF Size:** 993 bp

**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:**

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\\_023209.2](#)

**RefSeq Size:** 1663 bp

**RefSeq ORF:** 993 bp

**Locus ID:** 52033

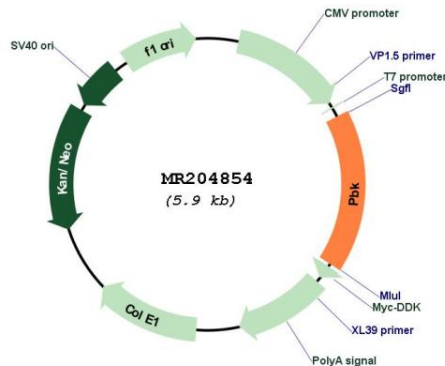
**UniProt ID:** [Q9JJ78](#)

**Cytogenetics:** 14 34.36 cM

**MW:** 36.7 kDa

**Gene Summary:** Phosphorylates MAP kinase p38. Seems to be active only in mitosis. May also play a role in the activation of lymphoid cells. When phosphorylated, forms a complex with TP53, leading to TP53 destabilization (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204854