

Product datasheet for **MR203692**

Pef1 (NM_026441) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pef1 (NM_026441) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pef1
Synonyms:	2600002E23Rik; Peflin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203692 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGCTATCCAAACGGACAGAGTTGCCAGGAGCTGCAGGACAGGTGCCTGGAGTACCCCGGGG
GCTATTATCCTGGTCTCCCATGGTGGGGCCAGTATGGCAGTGGACTGCCCCAGGTGGTGGCTATGG
AGCTCCTGCCCTGGAGGACCTTATGGATACCCAGTGTGGAGGAGTCCCCTCGGGAACCAAGTGA
CCATATGGCGGTATACCTCCAGGGGTCCCTATGGTCAGTACCTCCAGGGGTCCCTACGGTACCCAGC
CTGGACATTATGGACAGGTGGTGTCCCCGAATGTGGATCCTGAGGCCTACTCCTGGTCCAGTCAGT
GGATGCCGATCACAGTGGCTATATCTCCCTCAAGGAGCTGAAGCAGGCCCTAGTCAACTCCAAGTGGTCC
TCATTCATGACGAGACATGCCACATGATGATAAACATGTTTGACAAGACCAAGTCTGGCCGATTGATG
TCGCCGGCTTCTCAGCCTTATGGAATTCCTCCAGCAGTGGAGGAACCTCTTTCAGCAGTATGACCGGGA
CCGCTCGGGCTCCATTAGCTCCACAGAGCTGCAGCAAGCGCTCTCCAGATGGGCTACAACCTGAGCCCT
CAGTTCACGCAGCTCCTGGTTCCCGGTACTGCGCAGCTCTGCTATCCCGCCATGCAGCTTGACTGCT
TCATCAAGGTGTGTAACCCAGCTGCAGGTGTTGACTGAGGCCTCCGGGAAAAGGATACCGCTGTACAGGG
CAACATCCGGCTCAGCTTTGAGGACTTTGTCACCATGACGGCTTCAAGGATGCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_026441.2](#), [NM_026441.3](#), [NM_026441.4](#), [NP_080717.2](#)

RefSeq Size: 1551 bp

RefSeq ORF: 828 bp

Locus ID: 67898

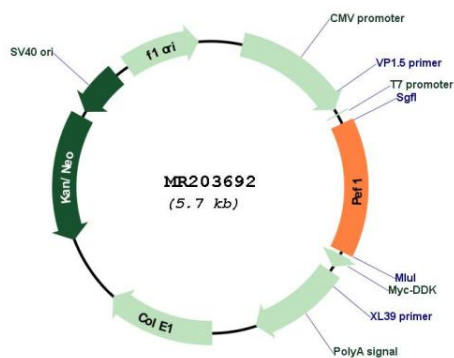
UniProt ID: [Q8BFY6](#)

Cytogenetics: 4 D2.2

MW: 29.3 kDa

Gene Summary: Calcium-binding protein that acts as an adapter that bridges unrelated proteins or stabilizes weak protein-protein complexes in response to calcium. Together with PDCD6, acts as calcium-dependent adapter for the BCR(KLHL12) complex, a complex involved in endoplasmic reticulum (ER)-Golgi transport by regulating the size of COPII coats. In response to cytosolic calcium increase, the heterodimer formed with PDCD6 interacts with, and bridges together the BCR(KLHL12) complex and SEC31 (SEC31A or SEC31B), promoting monoubiquitination of SEC31 and subsequent collagen export, which is required for neural crest specification. Its role in the heterodimer formed with PDCD6 is however unclear: some evidence shows that PEF1 and PDCD6 work together and promote association between PDCD6 and SEC31 in presence of calcium. Other reports show that PEF1 dissociates from PDCD6 in presence of calcium, and may act as a negative regulator of PDCD6 (By similarity). Also acts as a negative regulator of ER-Golgi transport; possibly by inhibiting interaction between PDCD6 and SEC31 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203692