

## Product datasheet for **MC202098**

### Pef1 (NM\_026441) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pef1 (NM_026441) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pef1
Synonyms:	2600002E23Rik; Peflin
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC019191 sequence for NM_026441 CCACGCGTCCGTAACCGCCATGGCCAGCTATCCAAACGGACAGAGTTGCCAGGAGCTGCAGGACAGGTG CCTGGAGTACCCCGGGGGGCTATTATCCTGGTCCCTCCCATGGTGGGGCCAGTATGGCAGTGGACTGC CCCCAGGTGGTGGCTATGGAGCTCTGCCCTGGAGGACCTTATGGATACCCAGTGCTGGAGGAGTCCC CTCGGGAACCTCCAAGTGGACCATATGGCGGTATACCTCCAGGGGTCCCTATGGTCAGCTACCTCCAGGG GGTCCCTACGGTACCCAGCCTGGACATTATGGACAGGGTGGTGTCCCCCGAATGTGGATCCTGAGGCCCT ACTCCTGGTTCAGTCAGTGGATGCCGATCACAGTGGCTATATCTCCCTCAAGGAGCTGAAGCAGGCCCT AGTCAACTCCAAGTGGTCCCTCATTCAATGACGAGACATGCCACATGATGATAAACATGTTTGACAAGACC AAGTCTGGCCGATTGATGTCGCCGGCTTCTCAGCCTTATGGAAATTCCTCCAGCAGTGGAGGAACCTCT TTCAGCAGTATGACCGGGACCGCTCGGGCTCCATTAGCTCCACAGAGCTGCAGCAAGCGCTCTCCAGAT GGGCTACAACCTGAGCCCTCAGTTCACGCAGCTCCTGGTTTCCCGTACTGCGCACGCTCTGCTATTCCC GCCATGCAGCTTGACTGCTTCATCAAGGTGTGTACCCAGCTGCAGGTGTTGACTGAGGCCTCCGGGAAA AGGATACCGCTGTACAGGGCAACATCCGGCTCAGCTTTGAGGACTTTGTCAACATGACGGCTTCAAGGAT GCTATGACCCAGCCTCCCTAAAGGGAGTGGAGCACACCAGGGGATGTGGGCCCTCCTTTCCTCCTCTCC TAGCAAAGAGTGTTCCTAGCCTGAGCTAGGAAGGGCGGAGCTTGACTATCCTGGGCTGTGGAGTGGTCT TGCCTTGGAGTAGGGCCCTAGAGTAGCAATGGAGTTAGTGTCTGGCCAGCTGTCTGGCCCTCTGGCTTT CCCCCTACTCCCTGATGCCAGTGTAAAGTGTCTATTGGCTGCCTACCTGTCATCCCTCACCGAGACCA TCGGGTGAGACGAGCCAGGTTCTGCACAGTGGAGTCACTGAGCTGAGAGAGATTTGCTGGGACCAGA GCCTGGGGTCCCTCAGCTCCTCAGTCTTGTATGTTAACATTAATTTTCTGAGGCTTTGCCTGCAACAAG AAGCTTGGACATTCTGCCATCTCGCCATATCTGATGAGGCTCATGACCACCAAAACTCGGACCCCTCAC TGGGCTGCCACGTTCCACCCAGCTTCTCTCCCCAGGAACATTGTACATCCTACTGCCAACATTGTAATT TGCTTGTTTGTTTGTTTTTTTTCCCCATTTGGGGCCAAAAGTCCAGGAACTGTAAGTGTCAATAAAAAG AAAGACTCTGTAGTCCCATGTTTTCCACCATGAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_026441



[View online »](#)

<b>Insert Size:</b>	828 bp
<b>OTI Disclaimer:</b>	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).
<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>	<u><a href="#">BC019191</a></u> , <u><a href="#">AAH19191</a></u>
<b>RefSeq Size:</b>	1518 bp
<b>RefSeq ORF:</b>	828 bp
<b>Locus ID:</b>	67898
<b>UniProt ID:</b>	<u><a href="#">Q8BFY6</a></u>
<b>Cytogenetics:</b>	4 D2.2
<b>Gene Summary:</b>	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]