

## Product datasheet for MC207264

### Egfbp2 (NM\_010115) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Egfbp2 (NM_010115) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Egfbp2
Synonyms:	Egfbp-2; Klk1b26; mGk-13; PRECE-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207264 representing NM_010115 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGTTCCTGATCCTGTTCTAGCCCTGTCCCTAGGAGGGATTGATGCTGCACCTCCTCTCCAGTCTC  
GGGTGGTTGGAGGATTTAACTGTAAGAAGAATCCCAACCCTGGCAGGTGGCTGTGTACTACCAAAAGGA  
ACACATTTGTGGGGGTGCTGTTGGACCGCAACTGGTCTCACAGCTGCCACTGCTATGTCGACCAG  
TATGAGGTTTGGCTGGGCAAAAACAAGTTATTCCAAGAGGAACCTCTGCTCAGCACCGATTGGTCAGCA  
AAAGCTTCCTCACCTGGCTTCAACATGAGCCTCCTGATGCTTCAAACAATACCTCCTGGGGCTGACTT  
CAGCAATGACCTGATGCTGCTCCGCTCAGCAAGCCTGCTGACATCACAGATGTTGTGAAGCCCATCGCC  
CTGCCCCAAAAGGAGCCCAAGCCGGGAGCAAAATGCCTAGCCTCAGGCTGGGGCAGCATTACACCCACAA  
GATGGCAAAAGCCAGATGATCTTCAGTGTGTGTTTCATCAGCTCCTGCCAATGAGAAGTGTGCCAAAGT  
CTACCTACAGAAAGTCACAGATGTATGCTGTGTGCAGGAGAGATGGGTGGAGGCAAGACACTTGTAGG  
GATGACTCCGGAGGCCCACTGATTTGTGATGGTATTCTCCAAGGAACCATCATATGCCCTGTACCAT  
GCGGTAAACCTGGTGTACCGCCATCTACCAACCTTATTAAGTTCAACTCCTGGATAAAAGATACTAT  
GATGAAAAATGCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_010115
Insert Size:	786 bp



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<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_010115.6, NP_034245.3</u>
<b>RefSeq Size:</b>	858 bp
<b>RefSeq ORF:</b>	786 bp
<b>Locus ID:</b>	13647
<b>UniProt ID:</b>	<u>P36368</u>
<b>Cytogenetics:</b>	7
<b>Gene Summary:</b>	<p>The protein encoded by this gene belongs to the kallikrein family, which is a highly homologous group of serine proteases encoded by a cluster of related genes on chromosome 7. This gene has been shown to function as both a prorenin converting enzyme and as epidermal growth factor (EGF)-binding protein involved in the maturation of EGF (PMIDs: 1918045, 3322387, 9685728). This gene is thought to be distinct from Klk1b26 gene (GeneID:16618), with which it shares 98% identity (PMID:1959648, 9685728), however, it is not clear if both genes are present in all strains of mice. Blast analyses suggest that this gene is missing from the current reference (GRCm38, based on C57BL/6J genome) and alternate Celera (based on mixed strain genomes) assemblies. Therefore, the RefSeq for this locus was based on sequence from the ICR strain, which has been reported in literature (PMID:1959648) to contain both genes. [provided by RefSeq, Aug 2012]</p>