

## Product datasheet for **SC310227**

### Myelin expression factor 2 (MYEF2) (NM\_016132) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myelin expression factor 2 (MYEF2) (NM_016132) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYEF2
Synonyms:	HsT18564; MEF-2; MST156; MSTP156; myEF-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC310227 representing NM\_016132.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGGACGCCAACAAAGGCCGAGGTGCCCGGGCCACTGGTGGCGACAGCCCGCACCTGCAGCCCGCA
GAGCCCGCGGGCGAGCCCGGGCGAGAGCCGACCCCGGAGGGCGGAGAAGCAGCAGCCGCAGCACAGC
AGCAGCTCCAATGGCGTTAAAATGGAGAATGATGAATCAGCAAAAAGAAGAAAATCTGACTTAAAGGAA
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AAATCAAGGGGTTGGTGTGGTTGAATCAAAGATGAAGAAATTTGTAAGAAAGCCCTAGAAAATATG
AACAAATATGATCTTAGTGAAGACCCCTAATATTAAGAGGATCCTGATGGAGAAAATGCTCGTAGG
GCATTGCAGCGAACAGGAGGATCATTTCCAGGAGGACACGTCCCTGATATGGGATCAGGGTTGATGAAT
TTACCACCTTCCATACTCAATAATCAAACATTCTCCTGAAGTCATCAGTAATTTGCAGCCGGTAGA
CTTGGTTCCACAATTTTTGTTGCCAATCTTGACTTCAAAGTTGGTTGGAAGAAGCTAAAGGAAGTGTC
AGCATAGCTGGAAGTGTGAAGCGGGCAGATATTAAGAAGACAAAAGATGGCAAGAGCAGAGGAATGGGC
ACTGTCACCTTTGAGCAAGCAATTGAAGCAGTTCAAGCAATTTCTATGTTCAATGGGCAGTTTTTATTT
GATAGACCTATGCATGTGAAAATGGATGACAAGTCTGTTCCCTCATGAAGAGTACCGTTCCATGATGGT
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AGTGCCAGCCAGTTGAACATAGGTGGAGTAATGGGAAATTTAGGTCCAGGTGGTATGGGAATGGATGGT
CCAGGTTTTGGAGGAATGAATAGAATGGAGGAGGAATAGGTTTGGTGGTCTGGAAGCAATGAATAGC
ATGGGAGGATTTGGAGGAGTTGGCCGAATGGGAGAGCTGTACCGTGGTGGATGACTAGTGCATGGAG
CGAGATTTTGGACGTGGTATATTGGAATAAATCGAGGCTTTGGAGATTCTTTGGTAGACTTGGCAGT
GCAATGATTGGAGGGTTTGCAGGAAGAATAGGATCTTCTAACATGGGTCCAGTAGGATCTGGAATAAGT
GGTGAATGGGTAGCATGAACAGTGTGACTGGAGGAATGGGGATGGGACTGGACCGGATGAGTTCACGC
TTTGATAGAATGGGACCAGGTATAGGAGCTATACTGGAAGGAGCATCGATATGGATCGAGGATTTTGA
TCGGGTCCAATGGGAAGCGGAATGAGAGAGAGAATAGGCTCCAAAGGCAACCAGATATTTGTGAGAAAT
CTACCTTTTACTTGACTTGGCAGAAAATAAAAGAGAAATTCAGTCAGTGTGGTGCATGTAATGTTTGCA
GAAATAAAAATGGAGAATGGAAAGTCAAAGGCTGTGGAACAGTCAGATTTGACTCCCAGAAATCAGCT
GAAAAAGCCTGCAGAATAATGAATGGCATAAAAATCAGTGGCAGAGAAATGATGTTTCGCTTGGATCGT
AATGCATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:** □

**ACCN:** NM\_016132

**Insert Size:** 1803 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<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="#">NM_016132.4</a></u>
<b>RefSeq Size:</b>	5407 bp
<b>RefSeq ORF:</b>	1803 bp
<b>Locus ID:</b>	50804
<b>UniProt ID:</b>	<u><a href="#">Q9P2K5</a></u>
<b>Cytogenetics:</b>	15q21.1
<b>Domains:</b>	RRM
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	64.2 kDa
<b>Gene Summary:</b>	<p>Transcriptional repressor of the myelin basic protein gene (MBP). Binds to the proximal MB1 element 5'-TTGTCC-3' of the MBP promoter. Its binding to MB1 and function are inhibited by PURA (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a).</p>