

## Product datasheet for **RG225889**

### **AEBP2 (NM\_001114176) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	AEBP2 (NM_001114176) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AEBP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG225889 ORF sequence, **codon optimized**.  
**Due to the complexity of NM\_001114176, the ORF clone is codon optimized for mammalian Expression.**  
**The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.**

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCGAGCAATAACTGATATGGCAGATCTGGAGGAGCTGAGCAGGCTCTCCCACTGCCCCCTGGT  
 CTCGGGGTCTCAGCTGCGAGGGGAAGAGCCGAACCCCTGAGGAGGAGGAAGAAGAAGAAGAGGAGGAAGA  
 AGAGGCCGAAGCGGAAGCGGTAGCAGCTTTGTTGCTCAACGGAGGAAGTGGTGGGGGAGGCGCGGA  
 GGAGGAGGAGTCGGCGGAGGGGAAGCTGAAACGATGTCAGAACCCTCCCCTGAGAGCGCCTCTCAGCGG  
 GAGAGGACGAAGACGAAGAGGAGGATGACGAAGAGGAAGAAGATGAGTCTTCCAGTTCGGCGGTGGTGA  
 GGAGGAGTCAAGCGCTGAATCCCTCGTAGGGTCTCTGGGGCAGTAGTAGCGATGAAACGAGAAGCCTC  
 TCACCTGGAGCAGCCTCTCCAGCAGTGGGGATGGCGATGGAAAGGAGGGGCTTGAGGAGCCTAAGGGCC  
 CCCGCGCTCTCAAGGGGGGGCGGGGGGCGAGTTCTAGCTCCAGCGTGGTGGAGGAGGGGGCGATGA  
 AGGATACGGGACCGGTGGCGGAGGTAGTCCGCAACAAGCGGAGGGAGACGCGGGAGCCTGGAGATGTCA  
 TCTGACGGCAACCTCTTAGTCGGATGGATAGTGGAGACTCTATTTCCATCCACCATCATGGACGTCGATA  
 GCACCATCTCTAGTGGCCGCTCCACTCCTGCTATGATGAATGGCCAAGGCTCTACAACCTCTCCAGCAA  
 GAACATTCGTCACAACCTGTTGCTGGGATCAGTGTGAGGCTTGTTCAACTCCTCCCTGACTTGGCCGAT  
 CACATTCGGTCAATACATGTGGATGGCCAGCGGGCGGCTATTCTGTGCCTCTGGAAGGGGTGTAAAGG  
 TCTATAACACGCCAAGCACCTCACAGTCTTGGTTGCAACGACACATGCTGACCCACAGCGGAGACAAGCC  
 TTTTAAATGTGTGGTGGAGGATGTAATGCCTCTTTTGGCAGTCAAGGAGGGTGGCACGACACGTCGCC  
 ACACATTTCTCTCAGCAGAACTCCTCAAAAGTCAGTTCTCAACCAAGGCCAAAGAAGAGTCTCCCTCCA  
 AGGCCGAATGAATAAAGGGCGCAAGCTTAAAAACAAGCGCCGGAGGAGTCTGCCTCGCCCCACGACTT  
 CTTGACGCTCAGACCCTGGACGCCATTAGGCACAGGGCAATTTGTTTCAACCTGTCTGCTCATATTGAA  
 TCACTGGCAAGGGGCACAGCGTGGTGTTCACCTACAGTGATTGCAAAAAGAAAAGAGGATAGCGGAA  
 AGATCAAACCTCTGCTGACTGGATGCCAGAAGACATCCTCCCCGACGTTTGGGTCAACGAGTCTGAACG  
 CCATCAGCTCAAGACCAAGGTGGTGCATCTGTCTAAACTCCCAAGGACACTGCACCTTCTTTGGATCCA  
 AACATCTACAGGACCATGCCTCAAAGAGACTGAAGCGCACCCCTCATTCCGAAGGTGTTAACCTGTATT  
 TGTTCAAGCAG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG225889 representing NM\_001114176  
 Red=Cloning site Green=Tags(s)

MAAAITDMADLEEL SRLSPLPPGSPGSAARGRAEPPPEEEEEEEEEAEAEVAALLLNGSGGGGGGG  
 GGGVGGGEAETMSESPESASQAGEDEDEEEDDEEEDESSSSGGGEESSAESLVGSSGSSSDETRSL  
 SPGAASSSSGDGDGKEGLEEPKPRGSQGGGGGSSSSSVSSGGDEGYGTGGGSSATSGRRRSLEMS  
 SDGEPLSRMDSISSTIMVDSTISSGRSTPAMNNGQSTSSSKNIAYNCCWDQCQACFNSSPDLAD  
 HIRSIHVDGQRGGVFVCLWKGCKVYNTPTSSQSWLQRHMLTHSGDKPFKCVVGGCNASFASQGGLARHVP  
 THFSQQNSSKVSQPKAKEEESPSKAGMNRKRLKNKRRRSLRPHDFFDAQTLDAIRHRAICFNL SAHIE  
 SLGKGHSVVFHSTVIAKRKEDSGIKLLHWPEDILPDVWVNESERHQLKTKVVHL SKLPKDTALLLDP  
 NIYRTMPQKRLKRTLIRKVFNL YLSKQ

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

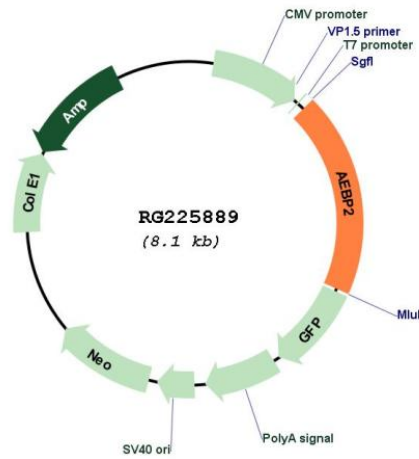
Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



ACCN: NM\_001114176

ORF Size: 1551 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001114176.1</a> , <a href="#">NP_001107648.1</a>
<b>RefSeq Size:</b>	5099 bp
<b>RefSeq ORF:</b>	1554 bp
<b>Locus ID:</b>	121536
<b>UniProt ID:</b>	<a href="#">Q6ZN18</a>
<b>Cytogenetics:</b>	12p12.3
<b>Gene Summary:</b>	DNA-binding transcriptional repressor. May interact with and stimulate the activity of the PRC2 complex, which methylates 'Lys-9' and 'Lys-27' residues of histone H3.[UniProtKB/Swiss-Prot Function]