

## Product datasheet for **SC303017**

### EN2 (NM\_001427) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EN2 (NM_001427) Human Untagged Clone
Tag:	Tag Free
Symbol:	EN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001427, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGAGAATGACCCCAAGCCTGGCGAAGCAGCGGCGCGGTGGAGGGACAGCGGCAGCCGGAATCCA
GCCCCGGCGGCGGCTCGGGCGGCGGCGGCTAGCAGCCCGGGCGAAGCGGACACCGGGCGCCGGCGGGC
TCTGATGCTGCCCGGCTCCTGCAGGCGCCCGCAACCACCAGCACCCGCACCGCATCACCAACTTCTTC
ATCGACAACATCCTGCGGCCGAGTTCCGGCCGGCGAAAGGACGCGGGGACCTGCTGTGCGGGCGCGGGAG
GAGGAAGGGCGGCGGAGCCGGCGGCGAAGGCGGCGGAGCGGTGCGGAGGGAGGCGGCGCGGGCGGGC
CTCGGAGCAGCTCTTGGGCTCGGGCTCCCGAGAGCCCGGCGAGAACC CGCCATGTGCGCCCGCGCGGGC
GGGCCGCTCCCAGCCCGGCGAGCAGCTCTCCGGGTGACGGGGAAGGCGGCTCCAAGACGCTCTCGCTGC
ACGGTGGCGCCAAGAAAGCGGCGACCCCGGCGGCCCTGGACGGGTGCTCAAGGCCGCGGCTTGGG
CGGCGGCGACCTGTGGTGAGCTCGGACTCGGACAGCTCGCAAGCCGGCGCAACCTGGGCGCGCAGCCC
ATGCTCTGGCCGCGTGGGTCTACTGTACGCGCTACTCGGACCGGCTTCTTCAGGTCCCAGGTCTCGAA
AACCAAAGAAGAAGAACCCGAACAAGAGGACAAGCGGCCGCGCACGGCCTTTACCGCCGAGCAGCTGCA
GAGGCTCAAGGCCGAGTCCAGACCAACAGGTACCTGACGGAGCAGCGGCCAGAGCCTGGCGCAGGAG
CTGAGCCTCAACGAGTCACAGATCAAGATTTGGTTCCAGAACAAGCGCGCCAAGATCAAGAAGGCCACGG
GCAACAAGAACACGCTGGCCGTGCACCTCATGGCACAGGGCTTGTACAACCACTCCACCACAGCCAAGGA
GGCAAGTCGGACAGCGAGTAG
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Restriction Sites:	Please inquire
ACCN:	NM_001427



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<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	<p>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.</p>
<b>Components:</b>	<p>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).</p>
<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_001427.2</a> , <a href="#">NP_001418.2</a>
<b>RefSeq Size:</b>	3405 bp
<b>RefSeq ORF:</b>	3405 bp
<b>Locus ID:</b>	2020
<b>UniProt ID:</b>	<a href="#">P19622</a>
<b>Cytogenetics:</b>	7q36.3
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS
<b>Gene Summary:</b>	<p>Homeobox-containing genes are thought to have a role in controlling development. In Drosophila, the 'engrailed' (en) gene plays an important role during development in segmentation, where it is required for the formation of posterior compartments. Different mutations in the mouse homologs, En1 and En2, produced different developmental defects that frequently are lethal. The human engrailed homologs 1 and 2 encode homeodomain-containing proteins and have been implicated in the control of pattern formation during development of the central nervous system. [provided by RefSeq, Jul 2008]</p>