

## Product datasheet for **SC128146**

### EGLN1 (NM\_022051) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EGLN1 (NM_022051) Human Untagged Clone
Tag:	Tag Free
Symbol:	EGLN1
Synonyms:	C1orf12; ECTY3; HALAH; HIF-PH2; HIFPH2; HPH-2; HPH2; PHD2; SM20; ZMYND6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_022051, the custom clone sequence may differ by one or more nucleotides

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ATGGCCAATGACAGCGGGCCCGCGGGCCGAGCCCGAGCGAGCGAGACCGGCAGTACTGCGAGCTGT
GCGGGAAGATGGAGAACCTGCTGCGCTGCGACCCGCTGCCGAGCTCCTTCTACTGCTGCAAGGAGACCA
GCGTCAGGACTGGAAGAAGCACAAAGCTCGTGTGCCAGGGCAGCGAGGGCGCCCTCGGCCACGGAGTGGC
CCACACCAGCATTCCGGCCCCGCGCCGCGCTGCAGTGCCGCGCCAGGGCCGGGGCCCGGGAGCCCA
GGAAGGCAGCGCGCGCCGGGACAACGCCTCCGGGGACCGGCCAAGGAAAAGTAAAGGCCAAGCCCC
GGCCGACCCAGCGCGCGCCGCGTGCCTGTCGTGCGGCCGCGCGGCCAGGGTCCGGCGTGGCTGCC
GAAGCCGAGCCCGCAAGGAGGAGCCGCGCCGCTCATCGCTGTTCCAGGAGAAGGCCAACCTGTACC
CCCAAGCAACACGCCCGGGGATGCGCTGAGCCCCGCGCGGCCGCGGCCAAGGGCAGACGAAGCC
CCTGCCGCGCTGAAGCTGGCGCTCGAGTACATCGTGCCGTGCATGAACAAGCACGGCATCTGTGTGGT
GACGACTTCTCGCAAGGAGACCGGACAGCAGATCGGCGACGAGGTGCGCGCCCTGCACGACACCGGGA
AGTTCACGGACGGGCAGCTGGTCAGCCAGAAGAGTGACTCGTCCAAGGACATCCGAGGCGATAAGATCAC
CTGGATCGAGGGCAAGGAGCCCGGCTGCGAAACATTGGGCTGCTCATGAGCAGCATGGACGACCTGATA
CGCCACTGTAACGGGAAGCTGGGCAGCTACAAAATCAATGGCCGACGAAAGCCATGGTTGCTTGTATC
CGGGCAATGGAACGGGTTATGTACGTGATGTTGATAATCCAAATGGAGATGGAAGATGTGTGACATGTAT
ATATTATCTTAATAAGACTGGGATGCCAAGTAAGTGGAGTACTTCAATTTTCCAGAAGGCCAAA
GCCAGTTTGCTGACATTGAACCCAAATTTGATAGACTGCTGTTTTCTGGTCTGACCGTCGCAACCCCTC
ATGAAGTACAACCAGCATATGCTACAAGGTACGCAATAACTGTTTGGTATTTTGTATGAGATGAGAGAGC
ACGAGCTAAAGTAAAATCTAACAGGTGAAAAAGGTGTGAGGGTGAACCTCAATAAACCTTCAGATTCC
GTCGGTAAAGACGCTTCTAG
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_022051 unedited</p> <pre>TAATTACCCCGCCGTTGACGCAAAGGGCGGTAGGCGTGTCCGGTGGGAGGTCTATATA AGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCC GCGAATTCGGCACGAGGCCCGTATGCCCTGCGCTCCTCCACAGCCTGGGCCGGCCGGCC GGGACGCTGAGGCGGGCGGGCGGCCGAGGGGGCCGGTCTTGCCTCCCCAGGCCCGCGC GCCTGAGCCCAGGTTGCCATTGCGCCGACAGGCCCTATTCTCTCAGCCCTCGGCGGGCAT GAGGCGCTGAGGCGGCTGCCGGCGCTGCCCGGAGCTTAGGACTCGGAAGCGGCCGGCC GAGGGCGTGGGGTGCCGGCTCCCTGAGGCGAGGTAGCGGGTGCATGGCGCAGTAACGG CCCCTATCTCTCTCCCCGCTCCCCAGCCTCGGGGAGGCCGTCCGGCCGCTACCCCTCT GCTCGGCCCGCAGTCGCCGTGCGCCGCGCCGCGCCGATGGCCAATGACAGCGGG GGCCCGCGGGCCGAGCCGAGCGAGCGAGACCGGCAGTACTGCGAGCTGTGCGGGAAGA TGGAGAACCTGCTGCGTGCAGCCGCTGCCGACGCTCTTCTACTGCTGCCAGGAGCACC AGCGTCAGGACTGGAAGAAGCACAAAGCTCGTGTGCCAGGGCAGCGAGGGCGCCCTCGGCC ACTGGAGTGGCCACACCANCATTACTGACCCGCGCCGTGGCTGCAATGCCCGCGCC AGGGCCGGGGCCCGGAAGCCAGCCAGCCACCGGCGTGTGGGACACGCCTCCGGGG ACGCGGCCAGGAAAAGTAAAGGCAAGCCCTGTGACCCAGCGGGGGCGCATCCACC TGTTCTTGCTGCCACCCCGCCAGAT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;Forward primer walk for NM_022051 unedited</p> <pre>NTTCCCATTTGTAANATGCTGTTTTTCTGGTCTGACCGTCGCAACCCTCATNAAGTACAA CCAGCATATGCTACAAGTACGCAATAACTGTTTGGTATTTTGATGCAGATGAGAGAGCA CGAGCTAAAGTAAATATCTAACAGGTGAAAAAGGTGTGAGGGTTGAACTCAATAAACCT TCAGATTCGGTCCGTAAGACGCTTCTAGAGCCTTTGATCCAGCAATACCCCACTTCAC CTACAATATTGTTAACTATTTGTTAACTTGTGAATACGAATAAATGGGATAAAGAAAAAT AGACAACCAGTTCGCATTTTAATAAGGAAACAGAAACAACTTTTTGTGTTGCATCAACA GAAGATTTTGACTGCTGTGACTTTGACTGCATGATCAACTTCAAATCTGTGATTGCTTA CAGGAGGAAGATAAGCTACTAATTGAAAATGGTTTTTACATCTGGATATGAAATAAGTGC CCTGTGTAGAATTTTTTATTCTTATATTTTGGCAGACTGTTATCTAGCTGAGTTCAT TTCATCTCTCCCTTTTTTATATCAAGTTGAATTTNGGATAATTTTTCTATATTAGGTAC AATTTATCTAACTGAATTGAGAAAAAATTACAGTATTATTCCTCANATAACATCAATCT ATTTTTGTAACTGTTTACTACTATTAATTTTGGCCCTAAAAGACCTCTTATAATTGATT GTTGCCAGTGACTGATGAATAAATTTTAAATTTTACTTAANATAAAAAAAGGAGCACTTTA ATTACAACGAAAATCAGAATGGTTTGTGAAGTCTTCCCTTAACTAATTTGAACTGTTA AAGATGGTGGCCTTTTTTTGGACAATGGCCATAACGAAACCTAATGGTAAAAAAGGCC CATTTACTACCC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_022051
<b>Insert Size:</b>	4050 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_022051.1](#), [NP\\_071334.1](#)

**RefSeq Size:** 5163 bp

**RefSeq ORF:** 1281 bp

**Locus ID:** 54583

**UniProt ID:** [Q9GZT9](#)

**Cytogenetics:** 1q42.2

**Domains:** zf-MYND, 2OG-FelI\_Oxy, P4Hc

**Protein Pathways:** Pathways in cancer, Renal cell carcinoma

**Gene Summary:** The protein encoded by this gene catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. HIF is a transcriptional complex that plays a central role in mammalian oxygen homeostasis. This protein functions as a cellular oxygen sensor, and under normal oxygen concentration, modification by prolyl hydroxylation is a key regulatory event that targets HIF subunits for proteasomal destruction via the von Hippel-Lindau ubiquitylation complex. Mutations in this gene are associated with erythrocytosis familial type 3 (ECYT3). [provided by RefSeq, Nov 2009]