

Product datasheet for **SC110740**

EGLN2 (NM_080732) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EGLN2 (NM_080732) Human Untagged Clone
Tag:	Tag Free
Symbol:	EGLN2
Synonyms:	EIT-6; EIT6; HIF-PH1; HIFPH1; HPH-1; HPH-3; PHD1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_080732, the custom clone sequence may differ by one or more nucleotides

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ATGGACAGCCCGTGCCAGCCGACGCCCTAAGTCAGGCTCTCCCTCAGTTACCAGGGTCTTCGTCAGAGC
CCTTGGAGCCTGAGCCTGGCCGGGCCAGGATGGGAGTGGAGAGTTACCTGCCCTGTCCCCTGCTCCCTC
CTACCACTGTCCAGGAGTGCCTAGTGAGGCCTCGGCAGGGAGTGGGACCCCCAGAGCCACAGCCACCTCT
ACCACTGCCAGCCCTCTTCGGGACGTTTTGGCGGCAGGATGGTGGTGAAGTGCAGGCGCTGCAGAGTG
AAGGCGCTGCAGCGCTGGTCACCAAGGGGTGCCAGCGATTGGCAGCCAGGGCGCACGGCCTGAGGCCCC
CAAACGGAAATGGGCCGAGGATGGTGGGATGCCCTTCACCCAGCAAACGGCCCTGGGCCAGGCAAGAG
AACCAGGAGGCAGAGCGGGAGGGTGGCATGAGCTGCAGCTGCAGCAGTGGCAGTGGTGAAGCCAGTGTG
GGCTGATGGAGGAGGCGCTGCCCTCTGCGCCCGAGCGCCTGGCCCTGGACTATATCGTGCCTGCATGCG
GTAACAGGCATCTGCGTCAAGGACAGTTCCTGGGGCAGCACTGGGCGGTGCGGTGCTGGCCGAGGTG
GAGGCCCTCAAACGGGGTGGGCGCTGCAGAGCGGCAGCTAGTGAAGCCAGAGGGCGATCCCGCCGCGCA
GCATCCGTGGGACAGATTGCCTGGGTGGAAGGCCATGAACCAGGCTGTGCAAGCATTGGTGCCTCAT
GGCCCATGTGGACGCGTCATCCGCCACTGCGCAGGGCGGCTGGGACGCTATGTCATCAACGGGCGCACC
AAGGCCATGGTGGCGTGTACCCAGGCAACGGGCTCGGGTACGTAAGGCACGTTGACAATCCCCACGGCG
ATGGGCGCTGCATCACCTGTATCTATTACCTGAATCAGAACTGGGACGTTAAGGTGCATGGCGCCCTGCT
GCAGATCTCCCTGAGGGCCGGCCCGTGGTAGCCAACATCGAGCCACTTTTGACCGGTTGCTCATTTTC
TGGTCTGACCGCGGAACCCCCACGAGGTGAAGCCAGCCTATGCCACCAGGTACGCCATCACTGTCTGGT
ATTTTGATGCCAAGGAGCGGGCAGCAGCCAAAGACAAGTATCAGCTAGCATCAGGACAGAAAGGTGTCCA
AGTACCTGTATCACAGCCGCTACGCCACCTAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_080732 unedited TAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGGGGCCGGAG GAAAACTCGCCACCCTGAAGGTCCCTTCCAAGCCCTTAGGGACCGCAGAGGACTTGGG GACCAGCAAGCAACCCCAAGGCACGAGAAGAGCTCTTGCTGTCTGCCCTGCCTCACCT GCCCCACGCCAGGCCGGTGGCCCCAGCTGCATCAAGTGGAGGCGGAGGAGGAGCGGA GGAGGGTGGCACCATGGGCCCGGGCGGTGCCCTCATGCCCGGGGATGAAGACTGCT GCCATGGACAGCCCGTCCAGCCGACGCCCTAAGTCAGGCTCTCCCTCAGTTACCAGGG TCTTCGTAGAGCCCTTGAGCCTGAGCCTGGCCGGCCAGGATGGGAGTGGAGAGTTAC CTGCCCTGTCCCCTGCTCCCCTCTACCACTGTCCAGGAGTGCCTAGTGAGGCCTCGGCA GGGAGTGGGACCCCAAGACCACAGCCACTCTACCACTGCCAGCCCTCTTCGGGACGGT TTTGGCGGCAGGATGGTGGTGAGCTGCGGCCGCTGCAGAGTGAAGGCGCTGCAGCGCTG GTCACCAAGGGGTGCCAGCGATTGGCAGCCAGGGCGCACGGCCTGAGCCCCAAACGG AAATGGGCCGANGATGGTGGGATGCCCTTACCAGCAAACGGCCCTGGGCCAGGCAAG AGAACCANGANGCANAGCGGGAGGGTGGCATGAGCTGCAGCTGCAGCAGTGGCAGTGGT AAGCCAGNNTGCTGGCTGATGGAGAAGCGCTGNCCTCTGCGCCGAGCGCCTGCCCTGGA CTATATCGTGCCCTGCATGCNGTACTACNGCATCTGCGTCAAGGACAGCTTCTGGGGG ANCACTGGNCNGTTCNCGTGCTTGGCCGAGGTGNAGGCCCTCAAACGGGTGTGCCCGCT GCNAAACCGGCANCTAGTGAGGCANATGGCGATCCNGNCGNCAGCATCCGTGGGGACC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_080732 unedited TGAACCGCCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCAGAGTGTGCAGC TCTGAGGTAACCTTTTATTTCTTGGCTGACAGGACTTCCACCCATGCTCCTCTGGCA CCTTTTACTCTGCCAAGCAGTGGCAGCCAGTCCAAAAGGTGCCTGCCATGGCCAAAGG GGTGGGGAGTCACTTACATTCAGGCTGGAGGAGTGAAGGACTTGGGGTACTCCTC CCACCCATTGCCAGCAAGAGGCCATGACTCACCTCAACCCCAAGTCTGCATCCTGGTG GGAAGTGACAATGCCTCCTCCAGCTCTCCATACCTAATGGGGTCATGACCAGACAGGGT AGGACCCAGGCCCCAGCTTCAAGTTGGTAACGGTGGCCTCCACGGCTGCCCCCTGTCCAG GTGACAACCCAGCCCCATGATGGGGCAGCAAAGGTCTTCTCCTCCTTGGTCTCAG CAACAGACAGAGCCCTCCACACCAGGCAGGACAGAGGCAAAGTCAAGAAGCAGCAGCGGTG GCAGGGAAAGGAGCAGCCAGCACAGGCCAGGGCTCTCCTGAAGTCATTTAAGCTGTCTG CATGCGGCTCTGGGACTGGCCACTAGGTGGGCGTAGGCGGCTGTGATACAGGTACTTGA CACCTTTCTGTCTGATGCTAGCTGATACTTGTCTTTGGCTGCTGCCCGCTCCTTGGCAT CAAAATACCAGACAGTGTGGCGTACCTGGTGGCATANGTGGCTTACCTCGTGGGGGT TCCGCGGTGAGACCCAAAATGAGCAACCCGTCAAAGATGGCTCGATGTGGCTACACGGG CCGGCCCTCAGGGAAGATCTGAGCAGGCCGCTGCACCTTACGTCCCATTTCTGATCAGG TATAAATACGGTGTGCAACCCCATTCCTGGGGATTGTAACGTGCCTTAGTACCCAAG CCGTTGCCTGGTTAACACCACAGGCCTGGTCCCCC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_080732
Insert Size:	1750 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).
Components:	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:	<ol style="list-style-type: none">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:	<u>NM_080732.1, NP_542770.1</u>
RefSeq Size:	2174 bp
RefSeq ORF:	378 bp
Locus ID:	112398
UniProt ID:	<u>Q96KS0</u>
Cytogenetics:	19q13.2
Domains:	2OG-Fell_Oxy, P4Hc
Protein Families:	Druggable Genome
Protein Pathways:	Pathways in cancer, Renal cell carcinoma
Gene Summary:	<p>The hypoxia inducible factor (HIF) is a transcriptional complex that is involved in oxygen homeostasis. At normal oxygen levels, the alpha subunit of HIF is targeted for degradation by prolyl hydroxylation. This gene encodes an enzyme responsible for this post-translational modification. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the upstream RAB4B (RAB4B, member RAS oncogene family) gene. [provided by RefSeq, Feb 2011]</p> <p>Transcript Variant: This variant (3) represents the longer transcript. Both variants 1 and 3 utilize alternative start codons that result in expression of two isoforms known as PHD1p43 and PHD1p40.</p>