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Product datasheet for SC126989

EGLN2 (NM_053046) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EGLN2 (NM_053046) 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:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC126989 sequence for NM_053046 edited (data generated by NextGen Sequencing)

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ATGGACAGCCCGTGCCAGCCGCAGCCCCTAAGTCAGGCTCTCCCTCAGTTACCAGGGTCT
TCGTCAGAGCCCTTGGAGCCTGAGCCTGGCCGGGCCAGGATGGGAGTGGAGAGTTACCTG
CCCTGTCCCCTGCTCCCCTCCTACCACTGTCCAGGAGTGCCTAGTGAGGCCTTGGCAGGG
AGTGGGACCCCCAGAGCCACAGCCACCTCTACCACTGCCAGCCCTCTTCGGGACGGTTTT
GGCGGGCAGGATGGTGGTGAGCTGCGGCCGCTGCAGAGTGAAGGCGCTGCAGCGCTGGTC
ACCAAGGGGTGCCAGCGATTGGCAGCCCAGGGCGCACGGCCTGAGGCCCCCAAACGGAAA
TGGGCCGAGGATGGTGGGGATGCCCCTTCACCCAGCAAACGGCCCTGGGCCAGGCAAGAG
AACCAGGAGGCAGAGCGGGAGGGTGGCATGAGCTGCAGCTGCAGCAGTGGCAGTGGTGAG
GCCAGTGCTGGGCTGATGGAGGAGGCGCTGCCCTCTGCGCCCGAGCGCCTGGCCCTGGAC
TATATCGTGCCCTGCATGCGGTACTACGGCATCTGCGTCAAGGACAGCTTCCTGGGGGCA
GCACTGGGCGGTCGCGTGCTGGCCGAGGTGGAGGCCCTCAAACGGGGTGGGCGCCTGCGA
GACGGGCAGCTAGTGAGCCAGAGGGCGATCCCGCCGCGCAGCATCCGTGGGGACCAGATT
GCCTGGGTGGAAGGCCATGAACCAGGCTGTCGAAGCATTGGTGCCCTCATGGCCCATGTG
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AAGGCCATGGTGGCGTGTTACCCAGGCAACGGGCTCGGGTACGTAAGGCACGTTGACAAT
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AAGGTGCATGGCGGCCTGCTGCAGATCTTCCCTGAGGGCCGGCCCGTGGTAGCCAACATC
GAGCCACTCTTTGACCGGTTGCTCATTTTCTGGTCTGACCGGCGGAACCCCCACGAGGTG
AAGCCAGCCTATGCCACCAGGTACGCCATCACTGTCTGGTATTTTGATGCCAAGGAGCGG
GCAGCAGCCAAAGACAAGTATCAGCTAGCATCAGGACAGAAAGGTGTCCAAGTACCTGTA
TCACAGCCGCCTACGCCCACCTAG

Clone variation with respect to NM_053046.3
173 c=>t
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_053046 unedited
TAACCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCA
GAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCCGCGA
ATTCGGCACGAGGGCGGCTGGCACAAACGGCGGCGCCGGGGCCGGAGGAAAAAGCTCGCC
ACCCTGAAGGGTCCCTTCCCAAGCCCTTAGGGACCGCAGAGGACTTGGGGACCAGCAAGC
AACCCCCAGGGCACGAGAAGAGCTCTTGCTGTCTGCCCTGCCTCACCCTGCCCCACACCA
GGCCCGGTGGCCCCCAGCTGCATCAAGTGGAGGCGGAGGAGGAGGCGGAGGAGGGTGGCA
CCATGGGCCCGGGCGGTGCCCTCCATGCCCGGGGGATGAAGACACTGCTGCCATGGACAG
CCCGTGCCAGCCGCAGCCCCTAAGTCAGGCTCTCCCTCAGTTACCAGGGTCTTCGTCAGA
GCCCTTGGAGCCTGAGCCTGGCCGGGCCAGGATGGGAGTGGAGAGTTACCTGCCCTGTCC
CCTGCTCCCCTCCTACCACTGTCCAGGAGTGCCTACTGAGGCCTTGGCAGGGAGTGGGAC
CCCCAGAGCCACAGCCACCTCTACCACTGNCAGCCCTCTTCGGTACGGTNTTTGCGGACA
GGATGGTGGTGAGCTGCNGTCGCTGCAAAGTGAAAGCGCTGCANNCGCTGTCACCCAAGG
GTGCCAGCGATTGGCAGCCCAGGCGCACCGTCTGAGCCCCCAAACGGNAATGGCCCCAGA
TGGTGGGGATGCCCTTTACCAGCAAACGGCCCTGGCCAGGCAGAGACCCAGAGGCAAACG
GNAGGTGCATGACTGCACTGCACATGCACGGGGTAGCCATGCTGGCTATGGAGGAGGCTG
CTTTTGCCAGACCCGGCCTGAAATATAAGGCTGCTGCGGCTAAGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_053046 unedited
CCCCCCTCCANNNAAATGGTGTGGAGTAAACTTTTTTGCTGGCTGACAGNACTCCCACCC
ATGCTCCTCCTGGCACCTTTTACTCTGCCCAAGCAGTGGCAGCCCAGTCCAAAAGTGCCT
GCCATGGCCAAAGGGGTTGGGGAGTCACTTCACATTCCAGGCTGGAGGAGTGAGAGGACT
TGGGGGTACTCCTCCCACCCCATTGCCAGCAAGAGGCCATGTTTCACCTCAACCCCAAGT
CCTGCATCCTGGTGGGAAGTGGACCATGCCTCCTTCCAGTTTTCCTTACCTAAGGGGGGA
CATGACCAACCGGGGTAAGGAACCAGGCCCCCCAACTTCAATTTGGTAACGGGGGCCTTC
AAGGTTGGCCCCCGTCCCGGGTAAAACCCCCCCCCCCCATTAGGGGGGAAAAAAAGGGTCT
TTTTCCCCCCTTGGGCCCCCAAAAAACAAAAAGAGCCCCCCCACCCCCGGGGGGGCCAGG
GCCAATTTAAAACCCCCCCCCGGGGCGGGGGAAGGGGAATCCCCAAACCCCCGGGGTTCC
TCAAAAAAATTTTAAAACTTTCTCCCCCCCCCTTTGGGGGCCGCCCCACAATTGGGGGCC
AGGCCCCGGGGTTTTAAAAACAAATTTTTACACCCCTCTTTTCTGCGGGGGCGTTTCTAA
ACAAACCCCCTTTTCTTTGTGGGTGGCCCCCCCCTTCTTTTCACCAAAAACAAACAACCA
CCAAGGTGGGCCGGTTTCCCTGGGGGGCTG

Restriction Sites: NotI-NotI

ACCN: NM_053046

Insert Size: 1800 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:	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_053046.2, NP_444274.1
RefSeq Size:	2111 bp
RefSeq ORF:	1224 bp
Locus ID:	112398
UniProt ID:	Q96KS0
Cytogenetics:	19q13.2
Protein Families:	Druggable Genome
Protein Pathways:	Pathways in cancer, Renal cell carcinoma
Gene Summary:	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 degration 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] Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 3. Both variants 1 and 3 utilize alternative start codons that result in expression of two isoforms known as PHD1p43 and PHD1p40.