

Product datasheet for RC206152

EGLN2 (NM_053046) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EGLN2 (NM_053046) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EGLN2
Synonyms:	EIT-6; EIT6; HIF-PH1; HIFPH1; HPH-1; HPH-3; PHD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206152 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGCCCGTCCAGCCGAGCCCTAAGTCAGGCTCTCCCTCAGTTACCAGGGTCTTCGTGAGAGC
CCTTGGAGCCTGAGCCTGGCCGGCCAGGATGGGAGTGGAGATTACCTGCCCTGTCCCCTGCTCCCCTC
CTACCACTGTCCAGGAGTGCCTAGTGAGGCCTCGGCAGGGAGTGGGACCCAGAGCCACAGCCACCTCT
ACCACTGCCAGCCCTCTCGGGACGTTTTGGCGGCAGGATGGTGGTGAGCTGCGGCCGCTGCAGAGTG
AAGGCGTGCAGCGCTGGTCACCAAGGGGTGCCAGCGATTGGCAGCCAGGGCGCACGGCCTGAGGCCCC
CAAACGGAAATGGGCCGAGGATGGTGGGATGCCCTTACCCAGCAAACGGCCCTGGGCCAGGCAAGAG
AACCAGGAGGCAGAGCGGGAGGGTGGCATGAGCTGCAGCTGCAGCAGTGGCAGTGGTGGGCCAGTGCTG
GGCTGATGGAGGAGGCGCTGCCCTCTGCGCCGAGCGCCTGGCCCTGGACTATATCGTGCCCTGCATGCG
GTACTACGGCATCTGCGTCAAGGACAGCTTCTGGGGCAGCACTGGGCGGTGCGGTGCTGGCCGAGGTG
GAGGCCCTCAAACGGGGTGGCGCCTGCGAGACGGCAGCTAGTGAGCCAGAGGGCGATCCCGCCGCGCA
GCATCCGTGGGGACCAGATTGCCTGGGTGGAAGCCATGAACCAGGCTGTGAAGCATTGGTGCCCTCAT
GGCCCATGTGGACGCCGTATCCGCCACTGCGCAGGGCGGCTGGCAGCTATGTCATCAACGGGCGCACC
AAGGCCATGGTGGCGTGTACCCAGGCAACGGGCTCGGGTACGTAAAGGCAGTTGACAATCCCCACGGCG
ATGGGCGCTGCATCACCTGTATCTATTACCTGAATCAGAAGTGGGACGTTAAGGTGCATGGCGGCCTGCT
GCAGATCTTCCCTGAGGGCCGGCCGTTAGCCAACATCGAGCCACTCTTTGACCGGTTGCTCATTTC
TGGTCTGACCGCGGAACCCCCACGAGGTGAAGCCAGCCTATGCCACCAGGTACGCCATCACTGTCTGGT
ATTTTGATGCCAAGGAGCGGGCAGCAGCCAAAGACAAGTATCAGTAGCATCAGGACAGAAAGGTGTCCA
AGTACCTGTATCACAGCCGCTACGCCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206152 protein sequence
Red=Cloning site Green=Tags(s)

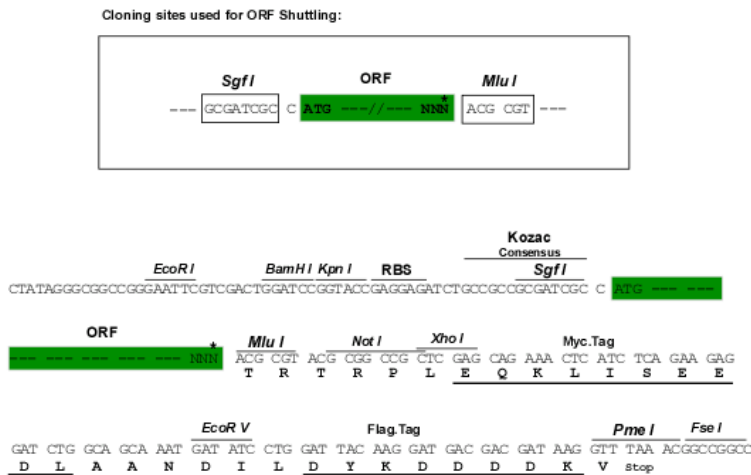
MDSPCQPQPLSQALPQLPGSSSEPLEPEPGRARMGVESYLPCLLPSYHCPGVPSEASAGSGTPRATATS
 TTASPLRDGFGGQDGGELRPLQSEGAAALVTKGCQRLAAQGARPEAPKRKWAEDGGDAPSPSKRPWARQE
 NQEAEREKGMSCSSSGSGEASAGLMEEALPSAPERLALDYIVPCMRYYGICVKDSFLGAALGGRVLAEV
 EALKRGGRLRDGQLVSQRAIPPRSIRGDQIAWVEGHEPGCRSIGALMAHVDAVIRHCAGRLGSYVINGRT
 KAMVACYPGNGLGYVRHVDNPHGDGRCITCIYYLNQNWDVKVHGGLLQIFPEGRPVVANIIEPLFDRLLIF
 WSDRRNPHEVKPAYATRYAITVWYFDAKERAAAKDKYQLASGQKGVQVVPVSPPTPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6031_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_053046

ORF Size: 1221 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_053046.4](#)

RefSeq Size: 2264 bp

RefSeq ORF: 1224 bp

Locus ID: 112398

UniProt ID: [Q96KS0](#)

Cytogenetics: 19q13.2

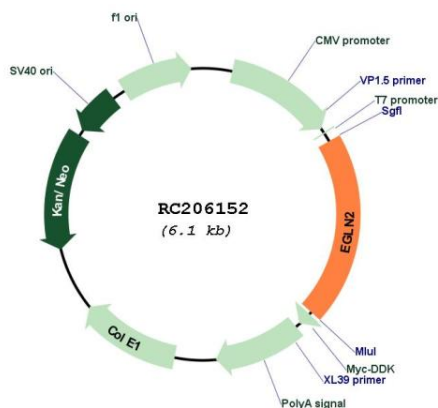
Protein Families: Druggable Genome

Protein Pathways: Pathways in cancer, Renal cell carcinoma

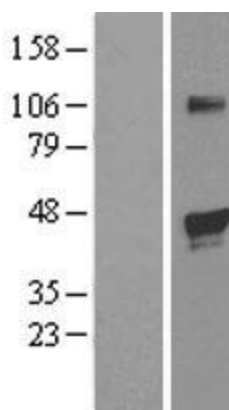
MW: 43.7 kDa

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 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]

Product images:



Circular map for RC206152



Western blot validation of overexpression lysate (Cat# [LY403281]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206152 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EGLN2 protein (Cat# [TP306152]). The protein was produced from HEK293T cells transfected with EGLN2 cDNA clone (Cat# RC206152) using MegaTran 2.0 (Cat# [TT210002]).