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Product datasheet for RC219191

EGLN2 (NM_080732) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EGLN2 (NM_080732) 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:

>RC219191 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACAGCCCGTGCCAGCCGCAGCCCCTAAGTCAGGCTCTCCCTCAGTTACCAGGGTCTTCGTCAGAGC
CCTTGGAGCCTGAGCCTGGCCGGGCCAGGATGGGAGTGGAGAGTTACCTGCCCTGTCCCCTGCTCCCCTC
CTACCACTGTCCAGGAGTGCCTAGTGAGGCCTCGGCAGGGAGTGGGACCCCCAGAGCCACAGCCACCTCT
ACCACTGCCAGCCCTCTTCGGGACGGTTTTGGCGGGCAGGATGGTGGTGAGCTGCGGCCGCTGCAGAGTG
AAGGCGCTGCAGCGCTGGTCACCAAGGGGTGCCAGCGATTGGCAGCCCAGGGCGCACGGCCTGAGGCCCC
CAAACGGAAATGGGCCGAGGATGGTGGGGATGCCCCTTCACCCAGCAAACGGCCCTGGGCCAGGCAAGAG
AACCAGGAGGCAGAGCGGGAGGGTGGCATGAGCTGCAGCTGCAGCAGTGGCAGTGGTGAGGCCAGTGCTG
GGCTGATGGAGGAGGCGCTGCCCTCTGCGCCCGAGCGCCTGGCCCTGGACTATATCGTGCCCTGCATGCG
GTACTACGGCATCTGCGTCAAGGACAGCTTCCTGGGGGCAGCACTGGGCGGTCGCGTGCTGGCCGAGGTG
GAGGCCCTCAAACGGGGTGGGCGCCTGCGAGACGGGCAGCTAGTGAGCCAGAGGGCGATCCCGCCGCGCA
GCATCCGTGGGGACCAGATTGCCTGGGTGGAAGGCCATGAACCAGGCTGTCGAAGCATTGGTGCCCTCAT
GGCCCATGTGGACGCCGTCATCCGCCACTGCGCAGGGCGGCTGGGCAGCTATGTCATCAACGGGCGCACC
AAGGCCATGGTGGCGTGTTACCCAGGCAACGGGCTCGGGTACGTAAGGCACGTTGACAATCCCCACGGCG
ATGGGCGCTGCATCACCTGTATCTATTACCTGAATCAGAACTGGGACGTTAAGGTGCATGGCGGCCTGCT
GCAGATCTTCCCTGAGGGCCGGCCCGTGGTAGCCAACATCGAGCCACTCTTTGACCGGTTGCTCATTTTC
TGGTCTGACCGGCGGAACCCCCACGAGGTGAAGCCAGCCTATGCCACCAGGTACGCCATCACTGTCTGGT
ATTTTGATGCCAAGGAGCGGGCAGCAGCCAAAGACAAGTATCAGCTAGCATCAGGACAGAAAGGTGTCCA
AGTACCTGTATCACAGCCGCCTACGCCCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC219191 protein sequence
Red=Cloning site Green=Tags(s)

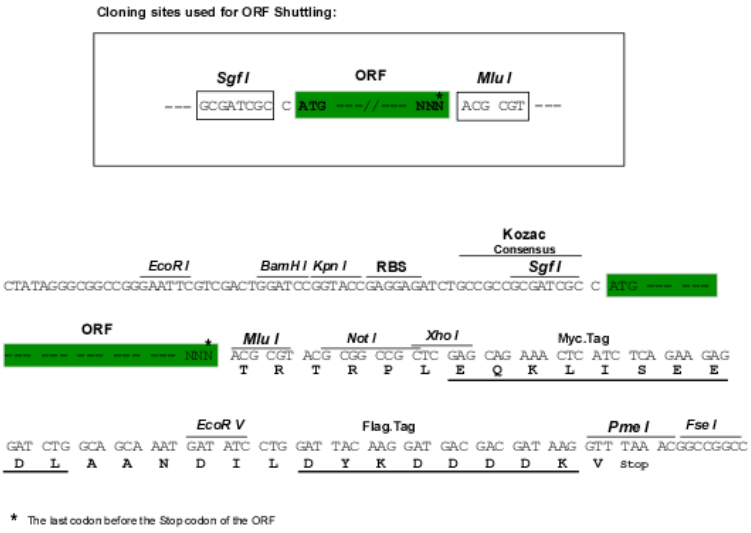
MDSPCQPQPLSQALPQLPGSSSEPLEPEPGRARMGVESYLPCPLLPSYHCPGVPSEASAGSGTPRATATS
TTASPLRDGFGGQDGGELRPLQSEGAAALVTKGCQRLAAQGARPEAPKRKWAEDGGDAPSPSKRPWARQE
NQEAEREGGMSCSCSSGSGEASAGLMEEALPSAPERLALDYIVPCMRYYGICVKDSFLGAALGGRVLAEV
EALKRGGRLRDGQLVSQRAIPPRSIRGDQIAWVEGHEPGCRSIGALMAHVDAVIRHCAGRLGSYVINGRT
KAMVACYPGNGLGYVRHVDNPHGDGRCITCIYYLNQNWDVKVHGGLLQIFPEGRPVVANIEPLFDRLLIF
WSDRRNPHEVKPAYATRYAITVWYFDAKERAAAKDKYQLASGQKGVQVPVSQPPTPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6320_a11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080732

ORF Size: 1221 bp

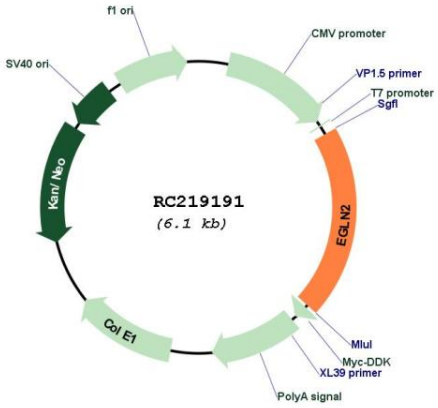
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

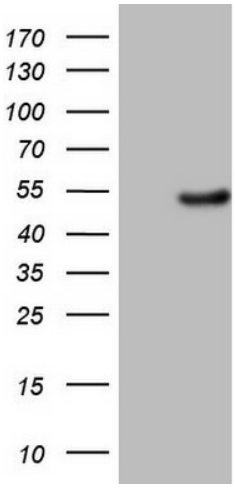
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
RefSeq:	NM_080732.4
RefSeq Size:	2174 bp
RefSeq ORF:	1224 bp
Locus ID:	112398
UniProt ID:	Q96KS0
Cytogenetics:	19q13.2
Domains:	2OG-FeII_Oxy, P4Hc
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 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]

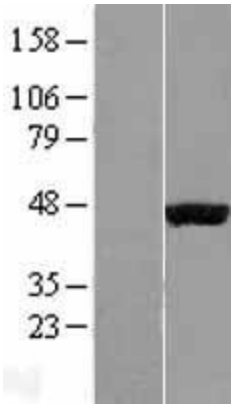
Product images:



Circular map for RC219191



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY EGLN2 (Cat# RC219191, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-EGLN2 (Cat# [TA808584])(1:2000). Positive lysates [LY409048] (100ug) and [LC409048] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY409048]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219191 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).