

Product datasheet for **RG219191**

EGLN2 (NM_080732) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EGLN2 (NM_080732) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EGLN2
Synonyms:	EIT-6; EIT6; HIF-PH1; HIFPH1; HPH-1; HPH-3; PHD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219191 representing NM_080732 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGCCCGTCCAGCCGACGCCCTAAGTCAGGCTCTCCCTCAGTTACCAGGGTCTTCGTGAGAGC
CCTTGGAGCCTGAGCCTGGCCGGCCAGGATGGGAGTGGAGAGTTACCTGCCCTGTCCCCTGCTCCCCTC
CTACCACTGTCCAGGAGTGCCTAGTGAGGCCTCGGCAGGGAGTGGGACCCACAGCCACAGCCACCTCT
ACCACTGCCAGCCCTCTCGGGACGGTTTTGGCGGCAGGATGGTGGTGTGAGCTGCGGCCGCTGCAGAGTG
AAGGCGTGCAGCGCTGGTCACCAAGGGGTGCCAGCGATTGGCAGCCCAGGGCGCACGGCCTGAGGCCCC
CAAACGGAAATGGGCCGAGGATGGTGGGATGCCCTTACCCAGCAAACGGCCCTGGGCCAGGCAAGAG
AACCAGGAGGCAGAGCGGGAGGGTGGCATGAGCTGCAGCTGCAGCAGTGGCAGTGGTGGAGCCAGTGCTG
GGCTGATGGAGGAGGCGCTGCCCTCTGCGCCCCAGCGCCTGGCCCTGGACTATATCGTGCCCTGCATGCG
GTACTACGGCATCTGCGTCAAGGACAGCTTCTGGGGCAGCACTGGGCGGTGCGGTGCTGGCCGAGGTG
GAGGCCCTCAAACGGGGTGGCGCCTGCGAGACGGCAGCTAGTGAAGCCAGAGGGCGATCCCGCCGCGCA
GCATCCGTGGGGACCAGATTGCCTGGGTGGAAGCCATGAACCAGGCTGTGAAGCATTGGTGCCCTCAT
GGCCCATGTGGACGCCGTATCCGCCACTGCGCAGGGCGGCTGGGAGCTATGTATCAACGGGCGCACC
AAGGCCATGGTGGCGTGTACCAGGCAACGGGCTCGGTACGTAAAGGCAGTTGACAATCCCCACGGCC
ATGGGCGCTGCATCACCTGTATCTATTACCTGAATCAGAATCGGGACGTTAAGGTGCATGGCGGCCCTGCT
GCAGATCTTCCCTGAGGGCCGGCCGCTGGTAGCCAACATCGAGCCACTCTTTGACCGGTTGCTCATTTC
TGGTCTGACCGCGGAACCCCCACGAGGTGAAGCCAGCCTATGCCACCAGGTACGCCATCACTGTCTGGT
ATTTTGATGCCAAGGAGCGGGCAGCAGCCAAAGACAAGTATCAGTAGCATCAGGACAGAAAGGTGTCCA
AGTACCTGTATCACAGCCGCTACGCCACC

ACGGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219191 representing NM_080732
Red=Cloning site Green=Tags(s)

MDSPCQPQPLSQALPQLPGSSSEPLEPEPGRARMGVESYLPCLLPSYHCPGVPSEASAGSGTPRATATS
 TTASPLRDGFGGQDGGELRPLQSEGAALVTKGCQRLAAQGARPEAPKRKWAEDGGDAPSPSKRPWARQE
 NQEAEREGGMSCSCSSGSGEASAGLMEEALPSAPERLALDYIVPCMRYYGICVKDSFLGAALGGRVLAEV
 EALKRGGRLRDGQLVSQRAIPPRSIRGDQIAWVEGHEPGCRSIGALMAHVDAVIRHCAGRLGSYVINGRT
 KAMVACYPGNGLGYVRHVDNPHGDGRCITCIYYLNQNWVDKVVHGLLQIFPEGRPVVANIEPLFDRLLIF
 WSDRRNPHEVKPAYATRYAITVWYFDAKERAAAKDKYQLASGQKGVQVPVSPPTPT

TRTRPLE - GFP Tag - V

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: 2167 bp

RefSeq ORF: 1224 bp

Locus ID: 112398

UniProt ID: [Q96KS0](#)

Cytogenetics: 19q13.2

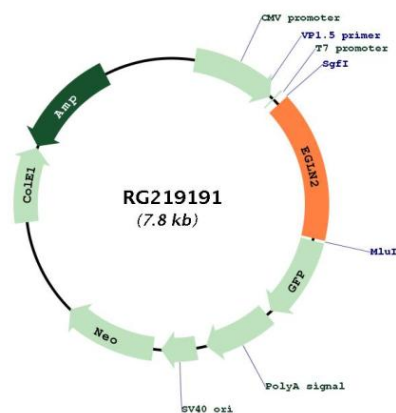
Domains: 2OG-Fell_Oxy, P4Hc

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 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 RG219191