

Product datasheet for **RG202843**

HIF1AN (NM_017902) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIF1AN (NM_017902) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HIF1AN
Synonyms:	FIH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202843 representing NM_017902 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGACAGCGCGGAGGCTGTGGCCTCTGGCTCTGGAGAGCCCCGGGAGGAGGCTGGAGCCCTCG
GCCCCGCTGGGATGAATCCCAGTTGCGCAGTTATAGCTTCCCGACTAGGCCATTCCGCGTCTGAGTCA
GAGCGACCCCGGCAGAGGAGCTTATTGAGAATGAGGAGCCTGTGGTCTGACCGACACAAATCTTG
TATCCTGCCCTGAAATGGGACCTTGAATACCTGCAAGAGAATATTGGCAATGGAGACTTCTGTGTACA
GTGCCAGCACCCACAAGTTCTTGTACTATGATGAGAAGAAGATGGCCAATTTCCAGAACTTAAGCCGAG
GTCCAACAGGGAAGAAATGAAATTTTCATGAGTTGTTGAGAACTGCAGGATATACAGCAGCGAGGAGGG
GAAGAGAGTTGTATCTGCAGCAACGCTCAATGACACTGTGGCAGGAAGATTGTCATGGACTTCTTAG
GTTTTAACTGGAAGTGAATTAAGCAACAGGAAAGCGTGGCTGGGGGCGACTTACCTCTAACCTGCT
GCTCATTGGCATGGAAGGAAATGTGACACCTGCTCACTATGATGAGCAGCAGAACTTTTTGGCTCAGATA
AAAGGTTACAACGATGCATCTTATCCCTCCGGATCAGTTTCGAGTGCCTCTACCCATACCTGTTTCATC
ACCCATGTGACAGACAGAGCCAGGTGGACTTTGACAATCCCGACTACGAGAGGTTCCCTAATTTCCAAAA
TGTGGTTGGTTACGAAACAGTGGTTGGCCCTGGTGATGTTCTTTACATCCAATGTAAGTGGTGGCAGC
ATAGAGTCATTACTAAATGGGGGATTACCATCACTGTGAATCTGGTATAAGGGGGCTCCACCCTTA
AGAGAATTGAATATCCTCTCAAAGCTCATCAGAAAGTGGCCATAATGAGAAACATTGAGAAGATGCTTGG
AGAGGCCCTGGGAACCCACAAGAGGTGGGGCCCTTGTGAACACAATGATCAAGGGCCGATACAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202843 representing NM_017902
 Red=Cloning site Green=Tags(s)

MAATAAEAVASGSGEPREEAGALGPAWDESQLRSYSFPTRPIPRLSQSDPRAEELIENEPPVVLTDTNLV
 YPALKWDLEYLQENIGNGDFSVYSASTHKFLYDEKMANFQNFKPRSREEMKFHEFVEKLQDIQQRGG
 EERLYLQQLNDTVGRKIVMDFLGFNWNWINKQQGKRGWGQLTSNLLLIGMEGNVTPAHYDEQQNFFAQI
 KGYKRCILFPPDQFECLYPYPVHHPCDRQSQVDFDNDPYERFPNFPQNVVGYETVVGPGDVLVYIPMYWVHH
 IESLLNGGITITVNFWYKGAPTPKRIEYPLKAHQKVAIMRNIKMLGEALGNPQEVGPLLNTMIKGRYN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017902

ORF Size: 1047 bp

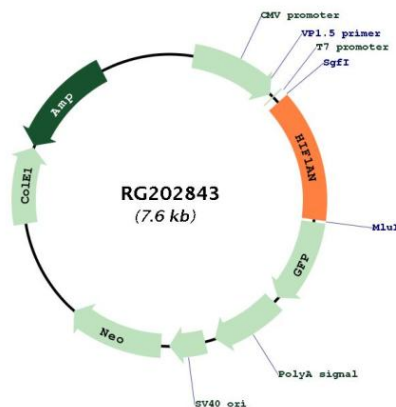
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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:	NM_017902.3
RefSeq Size:	2964 bp
RefSeq ORF:	1050 bp
Locus ID:	55662
UniProt ID:	Q9NWT6
Cytogenetics:	10q24.31
Protein Families:	Druggable Genome
Gene Summary:	Hydroxylates HIF-1 alpha at 'Asn-803' in the C-terminal transactivation domain (CAD). Functions as an oxygen sensor and, under normoxic conditions, the hydroxylation prevents interaction of HIF-1 with transcriptional coactivators including Cbp/p300-interacting transactivator. Involved in transcriptional repression through interaction with HIF1A, VHL and histone deacetylases. Hydroxylates specific Asn residues within ankyrin repeat domains (ARD) of NFKB1, NFKBIA, NOTCH1, ASB4, PPP1R12A and several other ARD-containing proteins. Also hydroxylates Asp and His residues within ARDs of ANK1 and TNKS2, respectively. Negatively regulates NOTCH1 activity, accelerating myogenic differentiation. Positively regulates ASB4 activity, promoting vascular differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG202843