

## Product datasheet for SC319170

### HIF1AN (NM\_017902) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HIF1AN (NM_017902) Human Untagged Clone
Tag:	Tag Free
Symbol:	HIF1AN
Synonyms:	FIH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_017902.1  
GAGATGGCGGCGACAGCGGCGGAGGCTGTGGCCTCTGGCTCTGGAGAGCCCCGGGAGGAG  
GCTGGAGCCCTCGGCCCGCCTGGGATGAATCCCAGTTGCGCAGTTATAGCTTCCCAGCT  
AGGCCCATTCGCGTCTGAGTCAGAGCGACCCCGGGCAGAGGAGCTTATTGAGAATGAG  
GAGCCTGTGGTGCTGACCGACACAAATCTGTGTATCCTGCCCTGAAATGGGACCTTGAA  
TACCTGCAAGAGAATATTGGCAATGGAGACTTCTCTGTGTACAGTGCCAGCACCCACAAG  
TTCTTGTACTATGATGAGAAGAAGATGGCCAATTTCCAGAACTTTAAGCCGAGGTCCAAC  
AGGGAAGAAAATGAAATTTTCATGAGTTCGTTGAGAACTGCAGGATATACAGCAGCGAGGA  
GGGAAGAGAGGTTGTATCTGCAGCAAACGCTCAATGACACTGTGGGCAGGAAGATTGTC  
ATGGACTTCTTAGGTTTTAACTGGAAGTGAATAAAGCAACAGGAAAGCGTGGCTGG  
GGCAGCTTACCTCTAACCTGCTGCTCATTGGCATGGAAGGAAATGTGACACCTGCTCAC  
TATGATGAGCAGCAGAAGCTTTTTGCTCAGATAAAAGGTTACAAACGATGCATCTTATTC  
CCTCCGGATCAGTTCGAGTGCCTCTACCCATACCCTGTTTCATCACCCTGTGACAGACAG  
AGCCAGGTGGACTTTGACAATCCCGACTACGAGAGGTTCCCTAATTTCCAAAATGTGGTT  
GGTTACGAAACAGTGGTTGGCCCTGGTGTGTTCTTTACATCCCAATGTACTGGTGGCAT  
CACATAGAGTCATTAATAATGGGGGATTACCATCACTGTGAACTTCTGGTATAAGGGG  
GCTCCCACCCCTAAGAGAATTGAATATCCTCTCAAAGCTCATCAGAAAGTGGCCATAATG  
TGAACACAATGATCAAGGGCCGATACAACACTAGCCTGCCAGGGGTCAAGGCTCTGCA  
GGTGACTGCTATCCCGTCCACACCGCTTATTGATGAGGACAGGAGACTCCAAGCGCTAG  
TATTGCACGCTGCACTTAATGGACTGGACTCTTGCCATGGCCAGGAGTCAAGTGTGTTGG  
AGCGAGGCAGGGCAGTTGGCACTCCACTCCTATTTGGAGGGACTCATACCCTTGCCCTCT  
TGTGCCCCAGCACCTTCTCTCTGCCCCCGCCTAAAGTCTGCATTCAAGTGTGGAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire



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<b>ACCN:</b>	NM_017902
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_017902.1</a></u> , <u><a href="#">NP_060372.1</a></u>
<b>RefSeq Size:</b>	2964 bp
<b>RefSeq ORF:</b>	1050 bp
<b>Locus ID:</b>	55662
<b>UniProt ID:</b>	<u><a href="#">Q9NWT6</a></u>
<b>Cytogenetics:</b>	10q24.31
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]