

Product datasheet for **MC222307**

Epas1 (NM_010137) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epas1 (NM_010137) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Epas1
Synonyms:	bHLHe73; HIF-2alpha; HIF2A; HLF; HRF; MOP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222307 representing NM_010137
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAGCTGACAAGGAGAAAAAAGGAGCAGCTCAGAGCTGAGGAAGGAGAAATCCCGTGTGCCGCA
 GGTGCCGGCGCAGCAAGGAGACGGAGGCTTCTATGAGTTGGCTCATGAGTTGCCCTGCCTCACAGTGT
 GAGCTCCACCTGGACAAAGCCTCCATCATGCGCCTGGCCATCAGCTTCCTTCGGACACATAAGCTCCTG
 TCCTCAGTCTGCTCTGAAAATGAATCTGAAGCTGAGGCCGACCAGCAAATGGATAACTTGTACCTGAAAAG
 CCTTGGAGGGTTTCATTGCTGTGGTGACCCAAGACGGTGACATGATCTTTCTGTGCGAAAACATCAGCAA
 GTTCATGGGACTTACTCAGGTAGAATAACAGGACACAGCATCTTTGACTTCACTCATCCTTGCACCAT
 GAGGAGATCCGTGAGAACCTGACTCTCAAAAACGGCTCTGGTTTTGGGAAGAAGACAAAGACGTGTCCA
 CCGAGCGTGACTTCTTCATGAGGATGAAGTGCACGGTACCAACAGAGGCCGGACTGTCAACCTCAAGTC
 GGCACCTGGAAGTCTGCACCTGCACCGGCAAGTGAGAGTCTACAACAACGCCCCCTCACAGTAGC
 CTCTGTGGCTCCAAGGAGCCCCTGCTGTCTGCCTTATCATCATGTGTGAGCCAATCCAGACCCATCCC
 ACATGGACATCCCCCTGGACAGCAAGACTTTCTGAGCCGCCACAGCATGGACATGAAGTTCACCTACTG
 TGACGACAGAATCTTGAAGTATTGGTTACCACCCCGAGGAGCTACTTGGACGCTCTGCCTATGAGTTC
 TACCATGCCCTGGATTCCGAGAACATGACCAAAAGTACCAGAATTTGTGCACCAAGGGGACGGTGGTAT
 CTGGCCAGTACCGGATGCTAGCCAAACAGGAGGATATGTGTGGCTGGAGACCCAGGGGACGGTCATCTA
 CAACCCCGCAACCTGCAGCCTCAGTGTATCATGTGTGCAACTATGTGCTGAGTGAGATCGAGAAGAAC
 GACGTGGTGTTCATGGACCAGACCGAATCCCTGTTCAAGCCACACCTGATGGCCATGAACAGCATCT
 TTGACAGCAGTGACGATGTGGCTGTAACGTAGAAGAGCAACTACCTGTTCAACAACTGAAGGAGGCC
 CGAGGAACTGGCCAGTTGGCCCCACCCAGGAGATGCCATTATTTCTCTCGATTCGGAAGCCAGAAC
 TTCGATGAACCCTCAGCCTATGGCAAGGCCATCCTTCCCCGGGCCAGCCATGGGTCTCGGGGCTGAGGA
 GCCACAGTGCCAGAGCGAGTCCGGGAGCCTGCCAGCCTTCACTGTGCCAGGCAGACACCCAGGGAA
 CACTACACCCAGTGCTTCAAGCAGCAGTGTGCTCCAGCCAGCAGCCTGAGGACTACTATTATCC
 TTGGAGAATCCCTTGAAGATCGAAGTATTGAGAAGCTTTTCGCCATGGACACGGAGCCGAGGGACCCGG
 GCAGTACCCAGACGGACTTCACTGAACTGGATTTGGAGACCTGGCACCCACATCCCTATGGACGGCGA
 GGACTTCCAGCTGAGCCCATCTGCCAGAGGAGCCGCTCATGCCAGAGAGCCCCAGCCACCCCCAG
 CACTGCTTCACTACCATGACCAGCATCTTCCAGCCGCTCACCCGGGGGCCACCCAGGCCCTTCTTCC
 TCGATAAGTACCCGCAGCAGTTGGAAAGCAGGAAGACAGAGTCTGAGCACTGGCCATGTCTTCCATCTT
 CTTTGATGCTGGGAGCAAAGGGTCCCTGTCTCCATGCTGTGGCCAGGCCAGCACCCCTCTCTTCTATG
 GGAGGCAGATCCAACACGCAGTGGCCCCGGATCCACCATTACATTTTCGCCCTACTAAGTGGCCTGTGG
 GTGATCAGAGTGTGAATCCCTGGGAGCCCTGCCGGTGGGGTCACTCGAGTTGGAACCTCCGAGCGCCCC
 GCCTCATGTCTCCATGTTCAAGATGAGGTCTGCAAAGGACTTCGGGGCCCGAGGTCCATACATGATGAGC
 CCAGCCATGATCGCCCTGTCCAACAAGCTGAAGCTAAAGCGGCAGCTGGAGTATGAGGAGCAAGCCTTCC
 AAGACACAAGCGGGGGGACCCCTCAGGCACCAGCAGTTCACACTTGTGTGAAACGTATGAAGAGCCT
 CATGGGCGGGACCTGTCTTTGATGCCTGACAAGACCATCAGTGCGAACATGGCCCCGATGAATTCACC
 CAAAAATCTATGAGAGGCTGGGCCAGCCACTGAGACACCTGCCACCTCCCCAGCCACCATCTACCAGGA
 GCTCAGGGGAGAACGCCAAGACTGGGTTCCCGCCACAGTGTATGCCTCCAGTTCAGGACTACGGTCC
 TCCAGGAGCTCAAAGGTGTGAGCGTGGCCAGTCTGACTGCTGGGGCCATCGTTTCGAGCCTTACCTGTTG
 CCGGAACTGACCAGATATGACTGTGAGGTGAACGTGCCCGTGCCTGGAAGCTCCACACTCTGCAGGGGA
 GAGACCTTCTCAGAGCTCTGGACCAGGCCACT**TGA**

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_010137
Insert Size: 2625 bp

OTI Disclaimer:	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).
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_010137.3 , NP_034267.3
RefSeq Size:	5352 bp
RefSeq ORF:	2625 bp
Locus ID:	13819
UniProt ID:	P97481
Cytogenetics:	17 E4
Gene Summary:	Transcription factor involved in the induction of oxygen regulated genes. Heterodimerizes with ARNT; heterodimer binds to core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) of target gene promoters (PubMed:26245371). Regulates the vascular endothelial growth factor (VEGF) expression and seems to be implicated in the development of blood vessels and the tubular system of lung. May also play a role in the formation of the endothelium that gives rise to the blood brain barrier. Potent activator of the Tie-2 tyrosine kinase expression. Activation requires recruitment of transcriptional coactivators such as CREBBP and probably EP300. Interaction with redox regulatory protein APEX seems to activate CTAD (By similarity).[UniProtKB/Swiss-Prot Function]