

## Product datasheet for **RR210531**

### Epas1 (NM\_023090) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Epas1 (NM_023090) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Epas1
Synonyms:	HIF-2 alpha; HIF2 alpha; Hif2a; HLF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR210531 representing NM\_023090  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACAGCTGACAAGGAGAAGAAAAGGAGCAGCTCGGAGCTGAGGAAGGAGAAATCCCGAGATGCCGCAC  
 GGTGCCGGCGTAGCAAGGAGACGGAGGTTCTATGAACCTGGCTCATGAGCTGCCCTGCCACAGTGT  
 GAGCTCCACCTGGACAAAGCCTCCATCATGCGCTGGCCATCAGCTTCCTGCGAACACATAAACTCCTG  
 TCTTCAGTGTGCTCTGAAAATGAATCTGAAGCCGAGGCTGACCAGCAGATGGATAACTTGTACCTGAAAAG  
 CCTTGGAGGGCTTATTGCCGTGGTGACCAAGACGGTGATATGATCTTCTGTGAGAAAACATCAGCAA  
 GTTCATGGGACTTACCCAGGTAGAATAACAGGACACAGCATCTTTGACTTCACTCATCCTTGCACCAC  
 GAGGAGATCCGAGAGAACCTGACACTCAAACCTGGCTCTGGTTTTGGGAAGAAGAACAAGATAGGTCTA  
 CCGAGCGTGACTTCTTCATGAGGATGAAGTGTACCGTCACCAACAGAGGCCGGACTGTCAACCTTAAGTC  
 GGGCACCTGGAAGTCTTGCACCTGCACCGGCAAGTGAGAGTCTACAACAACCTGCCCCCTCACAGTAGC  
 CTCTGCGGCTACAAGGAGCCCCTGCTGTCTGCCTCATCATCATGTGTGAGCCAATCCAGACCCATCCC  
 ACATGGACATCCCCTTGACAGCAAGACTTTCTAAGCCGCCACAGCATGGACATGAAGTTCACCTACTG  
 TGATGACAGAATCTTGAAGTGGTTGGTTACCACCCCGAGGAGCTACTTGGCCGCTCTGCCTATGAATTC  
 TACCACGCCCTGGACTCGGAGAACATGACAAAAAGTCACCAGAACTTGTGCACCAAGGGGCAAGTGGTGT  
 CTGGCCAGTACCGGATGCTGGCCAAACATGGAGGATATGTGTGGTTGGAGACCCAGGGGACCGTCGCTCA  
 CAACCCCGCAACCTGCAGCCCCAGTGTATCATGTGTGCAACTATGTCTGAGTGAGATAGAGAAGAAT  
 GACGTGGTGGTCTCCATGGACCAGACTGAATCTTGTTCAGCCACACCCTGATGGCCATGAACAGCATCT  
 TTGACACAAGTGACGACGTGGCCCTATCCGAGAAGAGCAACTACCTGTTCAACAACCTGAAGGAGGCC  
 AGAGGACCTGGCCAGCTGGCCCCACCCAGGGGATGCTATTATTTCTCTGGACTTCGGAAGCCAGAAC  
 TTTGATGAATCCTCGACTTATGGCAAGGCCATCCTTCCCCAGGCCAGCCGTGGGCCACAGAGCTGAGGA  
 GCCACAGTGCCAGAGTGAAGTCCAGGAGCTGCCAGCCTTACCCTGCCAGGCAGGTTCCCCAGGGAA  
 TGCCACACCCAGCGCCACAAGCAGCAGCAGCTGCTCCAGCCCAGCAGCCCTGAGGATTACTACTCATCT  
 CTGAGAAATCACTGAAGATCGAAGTAATCGAGAAGCTTTCGCCATGGACACCGAGGCGAAGGATCAGT  
 GCAGTACTCAGACGGACTTCAATGAACTGGACTGGAGACCCTGGCACCTACATCCCTATGGATGGCGA  
 GGACTTCCAGCTCAGCCCATCTGCCCGGAGGAGCCACTCGTCCCGGAGAGCCCCAGCCAACCCCCAG  
 CACTGTTTCAGTACCATGTCAAGCATCTCCAGCCGCTCACCCCGGGGCCAGCCAAGGCACCTTCTTCC  
 TTGACAAGTACCCGACGAGTTGGAAAGCCGGAAGACGGAGTCCGAGCACTGGCCCATGTCTACCATCTT  
 CTTTGATGCTGGGAGCAAAGGGTCCCTGCCCCATGCTGTGGCCAGGCCAGCACCCCTCTCTCTCTATG  
 GGGGGCAGATCTAACACGCCCTTGGCCCCAGATCCACCATTACATTTAGGCCCTACGAAGTGGTCTGTGG  
 GCAATCAGAGCGCTGAACCCCTGGGGCCTTGGCACTGGGGACCTCGCAGTTGGAGCCTCCCAGCACCCC  
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 CCGCCATGATAGCCCTGTCCAACAAGCTGAAGCTAAAGCGCCAGCTGGACTACGAGGAGCCAGCCTTCC  
 AAGACACAAGTGGGGGGACCTCCAGGCACCAGCAGTTCACACTTGTGTGAAACGAATGAAGAGCCT  
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 CAAAAATCCATGAGAGGCTGGGCCAGCCACTGAGACACCTGCCACCTCCCAGCCACCATCTACCAGGA  
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 GAGACCTTCTCAGAGCTCTGGACCAGGCCACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR210531 representing NM\_023090  
 Red=Cloning site Green=Tags(s)

MTADKEKKRSSSELRKEKSRDAARCRRSKETEVFYELAHPLPHSVSSHLDKASIMRLAISFLRTHKLL  
 SSVCSENESEAEADQQMDNLYLKALEGFI AVVTQDGMIFLSENI SKFMGLTQVELTGHSIFDFTHPCDH  
 EEIRENLTLKTGSGFGKKNKDRSTERDFMFMKCTVTNRGRTVNLKSATWKVLHCTGQVRVYNNCPHSS  
 LCGYKEPLL SCL IIMCEPIQHPSHMDIPLDSKTFLSRHSMDFKTYCDDRILELVGYHPEELLGRSAYEF  
 YHALDSENMTKSHQNLCTKGQVVSQYRMLAKHGGYVWLETQGTVVYNPRNLQPQCIMCVNYVLSIEKN  
 DVVVSMDQTESCSSHTLMAMNSIFDTSDDVALSEKSNYLFNTLKEEPEDLAQLAPTPGDAIISLDFGSQN  
 FDESSTYGKAILPPGQPWATELRSHSAQSESRSLPAFTVPQAGSPGNATPSATSSSSCSTPSSPEDYSS  
 LENHLKIEVIEKLFAMDTEAKDQCSTQTFNLDLETLAPYIPMDGEDFQLSPICPEEPLVPESPQPNPQ  
 HCFSTMSSIFQPLTPGASQGTFFLDKYPQQLSRKTESEHWPMSTIFFDAGSKGSLPPCCGQASTPLSSM  
 GGRSNTWPDPPLHLGPTKWSVGNQSAEPLGPLPLGTSQLEPPSTPPHVSFMKMRSAKDFGARGPYMMS  
 PAMIALSNKLLKLRQLDYEEPAFQDTSGGDPPGTSSSHLMWKRMSLMGGTCPLMPDKTVSASMAPDEFT  
 QKSMRGLGQPLRHLPPSQPPSTRSPGENAKSGFPPQCYASPFQDYSPPGAQKGSVASRLLGPSFEPLYL  
 PELTRYDCEVNVPEPGSSTLLQGRDLLRALDQAT

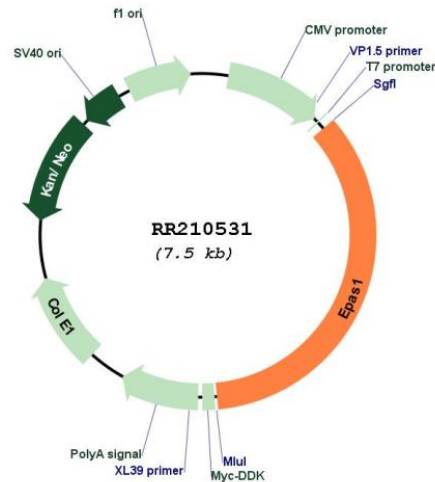
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_023090

**ORF Size:** 2622 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\\_023090.1](#), [NP\\_075578.1](#)

**RefSeq Size:** 2730 bp

**RefSeq ORF:** 2625 bp

**Locus ID:** 29452

**UniProt ID:** [Q9JHS1](#)

**Cytogenetics:** 6q12

**MW:** 96.7 kDa

**Gene Summary:** activates luciferase activity after transfection [RGD, Feb 2006]