

## Product datasheet for RR212035

### Egln2 (NM\_001004083) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Egln2 (NM_001004083) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Egln2
Synonyms:	HIF-PH1; HPH-1; HPH-3; PHD-1; PHD1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR212035 representing NM_001004083 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACAGCCCGTCCAGCCGAGGCCCTGAATCAAGCTCTCCCTCAGTTGCCAGGGTCTGTGCAGAGT  
CCTTGGAGCCTAGCCGAGCCAGGATGGGGTGGAGAGTTACCTGCCCTGTCTCTGCTCCCTCCTACCA  
CCGTTCCAGGAGCATCTGGGGAGGCTCGGCTGGCAACGGGACCCCAAGACACAGCCACTGCTACTACT  
ACCACTGCCAGTCCCCTGCGGGAGGGCTTTGGTGGGCAGGATGGTGGTGAGCTGTGGCCACTGCAGAGTG  
AAGGTGCTGCTGCGTTGGTTACCAAGGAGTGCCAGCGACTGGCGGCCAGGGTGCCCGACCTGAGGCCCC  
CAAACGGAAGTGGGCAAGGATGGTGGGATGCCCTTCAACCAGCAAGCGACCGTGGGCCAGGCAAGAG  
AACCAGGAGGCCAAGGGGAAAGTGGTGTGGGCTGTGACAGCGGTGGCGGCAGCAGCAACAGCACTACCC  
ATAGCAGTGGCGAGGCAAGTTCTAGGCTGAGGGAGGAAGCCAGCCCTCTGCACCTGAGCGCCTGGCCTT  
GGACTATATTGTGCTTGCATGCGGTAATGATCTGCGTCAAGGACAATCTTGGGGCAGTACTG  
GGTGGCCGTGTGCTGGCTGAGGTGGAAGCCCTGAAGTGGGGCGGGCTCTACGTGATGGCAACTAGTGA  
GCCAGCGGGCGATCCCACCGCAGCATTGCTGGGGACCAGATTGCTGGGTAGAAGGCCAGGAGCCAGG  
CTGCCGAGCATTGGTGCCTCATGGCTCATGTGGACGAGTAATCCGCCACTGTGCAGGGCGGCTGGGC  
AACTACGTCATCAATGGGCGCACCAAGGCCATGGTGGCGTGTACCCAGGCAATGGGCTCGGGTACGTGA  
GGCATGTTGACAAATCCCCACGGCGATGGGCGCTGCATCACCTGTATCTATTACCTGAATCAGAAGTGGGA  
TGTTAAGGTGCATGGCGGCTGCTGCAGATCTTCCCTGAGGGTGGCCAGTGGTAGCCAACATCGAGCCA  
CTCTTTGACCGTTGCTCATTTTCTGGTCTGACCGACGGAATCCACATGAGGTGAAGCCAGCCTATGCCA  
CCAGGTACGCCATCACTGTCTGGTATTTTGTGATGCCAAGGAGCGGGCAGCAGCCAGAGACAAGTATCAGT  
AGCATCGGGACAGAAAGGTGTTCAAGTACCCGTGTACAGCCAGCTACACCTACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR212035 representing NM\_001004083  
 Red=Cloning site Green=Tags(s)

MDSPCQPQALNQLPQLPGSVSESLEPSRARMGVESYLPCLLPSYHRSGASGEASAGNGTPRRTTATATT  
 TTASPLREGFGGQDGGELWPLQSEGAALVTKECQRLAAQGARPEAPKRKWKADGGDAPSPSKRPWARQE  
 NQEAKGESGVGCDSSGGSSNSTHSSGEASSRLREEAQPSAPERLALDYI VPCMYRYGICVKDNFLGAVL  
 GGRVLAEVEALKWGGRLRDGQLVSQRAIPPRSIRGDQIAWVEGHEPGCRSIGALMAHVDAVIRHCAGRLG  
 NYVINGRTKAMVACYPGNLGYVRHVDNPHGDGRCITCIYYLNQNWVKVHGGLLQIFPEGRPVVANIIEP  
 LFDRLLI FWSDRRNPHVEVKPAYATRYAITVWYFDAKERA AARDKYQLASGQKGVQPVSPATPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

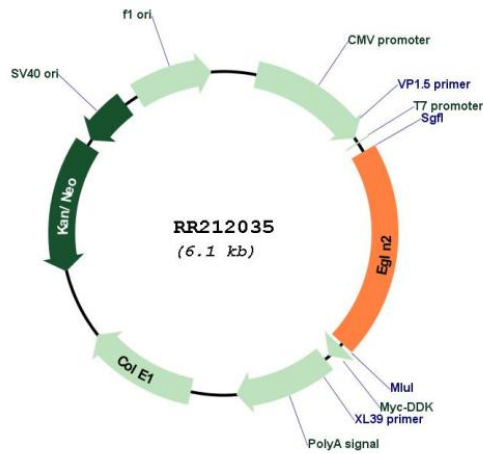
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001004083

<b>ORF Size:</b>	1245 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001004083.1</a> , <a href="#">NP_001004083.1</a>
<b>RefSeq Size:</b>	2013 bp
<b>RefSeq ORF:</b>	1248 bp
<b>Locus ID:</b>	308457
<b>UniProt ID:</b>	<a href="#">Q6AYU4</a>
<b>Cytogenetics:</b>	1q21
<b>MW:</b>	44.7 kDa
<b>Gene Summary:</b>	HIF-prolyl hydroxylase 1; might be involved in might play a role in hypoxic preconditioning [RGD, Feb 2006]