

## Product datasheet for **RR203143**

### **Ephx2 (NM\_022936) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ephx2 (NM_022936) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ephx2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR203143 representing NM\_022936  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGCTGCGTGTGGCCGCGTTGACCTTGACGGAGTGTGGCCCTCCCCTCTATAGCCGGGGTCTGC  
 GCCACACCGAGGAGGCCCTGGCGCTGCCAGAGACTTCCTACTTGGCGCTTCCAGATGAAATCCAGAG  
 GGGACCCACTGAGCAACTCATGAAAGGAAAGATCACATTTCCAGTGGGTACCACTCATGGATGAAAGC  
 TGCAGGAAGTCTCCAAAGCCTGTGGAGCCAGTCTACCTGAGAATTTCTCCATAAGTAAATATTCAGCC  
 AAGCCATGGCAGCAAGAAGCATCAACCGCCCCATGCTTCAGGCAGCTGCTGCTCTAAAAAGAAAGGATT  
 CACAACGTGCATTGTACCAACAACCTGGCTGGACGACAGTGACAAGAGAGACATCCTGGCCAGATGATG  
 TGTGAGCTGAGCCAACACTTTGACTTCTCATAGAGTCTGTGAGTCCGGATGATCAAGCTGAGCCTC  
 AGATCTACAAGTTTGTACTGGACACCCTGAAGGCAAAACCAATGAGGTTGTTTTCTAGATGACTTTGG  
 AAGTAATCTGAAGCCAGCCGCTGACATGGGGATGGTTACCATCTGGTCCGCGACACAGCCTCGGCTTTG  
 AGAGAACTGGAGAAAGTACAGGGACACAGTTTCTGAGGCACCTCTGCCAGTCCCGTGCAGTCCAAATG  
 ATGTCAGCCATGGGTATGTGACAGTGAAGCCAGGGATCCGCTGCACTTTGTGGAGATGGGCTCTGGCC  
 TGCTATATGCCTCTGTATGGGTTTCTGAGAGCTGGTTTTCTGGAGGTACCAGATCCCTGCTCTGGCC  
 CAGGCGGGCTTTCTGTCTAGCTATAGACATGAAAGGCTATGGAGACTCATCTTCTCCTCCAGAAATAG  
 AAGAATATGCTATGGAATTGCTGTGTGAGGAGATGGTGACATTCCTGAATAAACTGGGAATCCCTCAAGC  
 AGTGTTCATTGGCCATGACTGGGCTGGTGTGCTGGTGTGGAATATGGCTCTTTCCACCTGAGAGAGTG  
 AGGGCTGTGGCCAGTTTGAACACTCCATTAATGCCACCAATCCTGAGGTGTCCCCATGGAAGTTATCA  
 GATCGATCCCAGTTTTCAACTATCAGCTGACTTTCAAGAGCCAGGAGTGGCTGAGGCTGAACTGGAAAA  
 GAACATGAGTCGGACTTTCAAAAGCTTCTCCGAACCAAGTATGATATGGGTCTCCTCACTGTGAATAAA  
 GCCACTGAAATGGGGGAATCCTTGTGGAACTCCAGAAGATCCCAAGGTGAGCAAAATTAATACTGAGG  
 AGGAAATAGAGTATTACATACAGCAGTTCAAGAAGTCTGGCTTCAGAGGCCCTCTAACTGGTATCGAAA  
 CACAGAAAGAACTGGAAGTGGAGCTGTAAGGCGTTGGGAAGGAAGATCTTGGTCCCTGCCTGATGGTC  
 ACAGCTGAGAAGGACATTGTACTCCGCTCTGAAATGTCCAAGAACATGGAAAAGTGGATCCCTTCTCTGA  
 AAAGGGGACACATCGAAGACTGTGGTCACTGGACACAGATAGAGAAACCGGCAGAGGTGAACCAGATTCT  
 CATCAAGTGGCTGAAGACTGAAATCCAGAACCCATCGGTGACCTCAAGATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR203143 representing NM\_022936  
 Red=Cloning site Green=Tags(s)

MALRVAFDLDGVLALPSIAGVLRHTEELALPRDFLLGAFQMKFPEGPTQLMKGITFSQWVPLMDES  
 CRKSSKACGASLPENFSISEIFSQAMAARSINRPLQAAAALKKKGFTTCIVTNNWLDDSDKRDILAQMM  
 CELSQHFDFLIESCQVGMKPEPQIYKFLDTLKAKPNEVVFLDDFGSNLKPARDMGMVTLVRDTASAL  
 RELEKVTGTQFPEAPLPVPCSPNDVSHGYVTVKPGIRLHFVEMGSGPAICLCHGFPESWFSWRYQIPALA  
 QAGFRVLAIDMKGYGDSSPPEIEEYAMELLCEEMVTFLNKLGIPQAVFIGHDWAGVLVNMALFHPERV  
 RAVASLNTPLMPPNPEVSPMEVIRSIPVFNYQLYFQEPGVAEAELEKNMSRTFKSFFRTSDDMGLLTVNK  
 ATEMGGILVGTPEDPKYSKITTEEEIEYYIQQFKKSGFRGPLNWNRYRNTERNWKSCKALGRKILVPLMV  
 TAEKDIVLRPEMSKNMENWIPFLKRGHIEDCGHWTQIEKPAEVNQILIKWLKTEIQNPSVTSKI

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

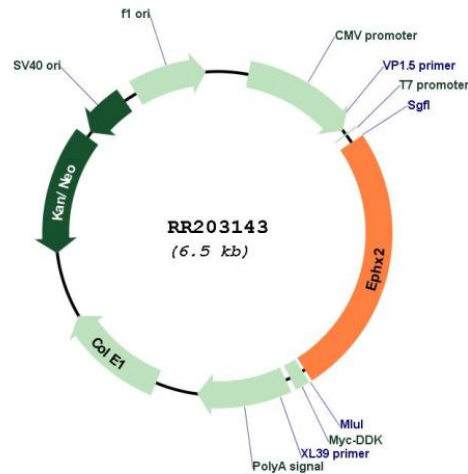
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_022936
<b>ORF Size:</b>	1662 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).

**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\\_022936.1](#), [NP\\_075225.1](#)

**RefSeq Size:** 1992 bp

**RefSeq ORF:** 1665 bp

**Locus ID:** 65030

**UniProt ID:** [P80299](#)

**Cytogenetics:** 15p12

**MW:** 62.3 kDa

**Gene Summary:** catalyzes the hydrolysis of an epoxide to a glycol; plays a role in regulation of blood pressure [RGD, Feb 2006]