

## Product datasheet for **MR208530**

### **Eya2 (NM\_010165) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Eya2 (NM_010165) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                 |
| Symbol:                   | Eya2                                    |
| Synonyms:                 | Eab1                                    |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-Entry (PS100001)                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                    |



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**ORF Nucleotide Sequence:**

>MR208530 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTAGAAGTGGTGACCTCACCCAGCCTCGCAACAAGCAGTGACTGGAGCGAGCACGGTGTCCCGTGG  
 GGACGCTGAGTGACAGGGAAGGCATCGCCAAATCAGCGGCTCTGAGTGTGCCTCAGCTCTTTGTGAAGTC  
 TCATCCACGTGTCCCTCCTGGTCAGTCCTCCACAGCCATGGCGGCCTATGGCCAGACACAGTACAGCACA  
 GGCATTACAGCAGGCACCACCTATACAGCGTACCCAACCTCGGCGCAAGCCTATGGAATCCCCCTTACA  
 GCATCAAGACAGAAGACAGTTTGAATCACTCCCCAGCCAGAGCGGGTCTGAGCTACGGACCGAGCTT  
 CAGCACCGCGCTGTGGACAGAGCCCCACACCTACCCCGTGCACAGCACCGCTGGGCTCTATCAAGGC  
 GCCAACGGACTGACCAACACCGCTGGATTTGGGAGCGTGCACCAGGATTATCCGCTACCCAGCTTTT  
 CACAGAACCAGTACCCCACTATTTAGCCCATCATAACAACCCGCTACGTCCTGCCAGCAGCCTCTG  
 CTCTCGCCCTCTCCAGTCCACCTACGTCCTCCAGGAGGCTCCTCACAATGTCCCGAGCCAGATTCT  
 GAGTCCCTGGCCGGAGACTACAACACACAACCGACCCCTCCACACCAGCAAAGGAGGGTGACACAGAGA  
 GGCCACATCGAGCCTCGGATGGGAAGCTACGGGGCCGGTCAAAGAGAAATAGTGACCCCTCCCGAGCAGG  
 AGACAATGAAATCGAGCGGTGTTCTGCTGGGACCTGGACGAGACAATCATTATCTTCCACTCCCTGCTC  
 ACAGGGACGTTTGCATCCAGATACGGGAAGGACACCACGACGCTGTGCGCATTGGCCTGATGATGGAGG  
 AGATGATCTTCAACCTTGTGACACACCTGTTCTTCAATGACCTGGAGGACTGTGACCAATCCACGT  
 GGATGATGTCTCATCCGATGACAATGGTCAGGATTTAAGCACATACAACTTCTCCACTGATGGCTCCAC  
 AGCACGGCGCCAGGAGCCAGCTTGTGCCTGGGTACAGGTGTTATGGCGGTGTGGACTGGATGAGGAAAC  
 TGGCCTCCGCTACCGTCTGTGAAGGAGATGTACAACACCTACCGCAACAACGTGGGTGGCTTGTATAGG  
 TGCTCCCAAAAGAGAGACCTGGCTGCAGCTGCGCGCCGAGCTGGAGGCCCTGACTGACCTCTGGCTCACC  
 CACTCCCTGAAAGCCCTCAATCTCATCAACTCTGACCCAACTGTGTCAATGTGTGGTACCACCACGC  
 AACTGATCCCTGCATTGGCCAAGGTCTGCTGTACGGTCTGGGCTCCGTGTTCCCATCGAGAACATCTA  
 CAGTGGCAGCAAGACAGGCAAGGAGAGCTGCTTCAAAGAATCATGCAGAGGTTTGGCCGCAAAGCTGTC  
 TACATTGTGATAGGCGACGGGTAGAGGAAGAGCAAGGAGCCAAAAGCACAACATGCCTTTCTGGAGGA  
 TATCTGTGATGCTGACCTGGAGGCTCTAAGGCATGCCCTGGAAGTGGAGTATCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208530 protein sequence  
 Red=Cloning site Green=Tags(s)

MLEVVTSPSLATSSDWSEHGAAVGTLSDREGIAKSAALSVPQLFVKSHRPVPPGQSSTAMAAYGQTQYST  
 GIQQAPPYTAYPTPAQAYGIPPYSIKTEDSLNHSPSQSGFLSYGPSFSTAPAGQSPYTPVHSTAGLYQG  
 ANGLTNTAGFGSVHQDYPSYPSFSQNYYPQYFSPSYNPPYVPASSLCSPLSTSTYVLQEAPHNVPSQSS  
 ESLAGDYNTHNGPSTPAKEGDTERRHRASDGKLRGRSKRNSDPSPAGDNEIERVFWDLDETIIFHSL  
 TGTAFASRYGKDTTTSVRIGLMMEEMIFNLADTHLFFNDLEDQIHDVDDVSSDDNGQDLSTYNFSTDGFH  
 STAPGASLCLGTGVHGGVDWMRKLAFYRVRKEMYNTYRNNVGLIGAPKRETWLQLRAELEALTDLWLT  
 HSLKALNLIINSRPNVNLVTTTQLIPALAKVLLYGLGSVFPIENIYSATKTGKESCFERIMQRFRKAV  
 YIVIGDVEEEQGAKKHNMFPWRISCHADLEALRHAELEYL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** NM\_010165

**ORF Size:** 1599 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\\_010165.1](#)
**RefSeq Size:** 2460 bp

**RefSeq ORF:** 1599 bp

**Locus ID:** 14049

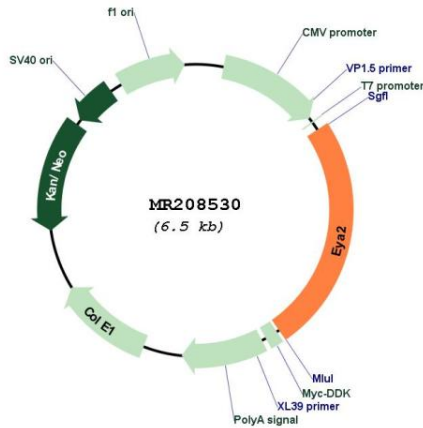
**UniProt ID:** [O08575](#)

**Cytogenetics:** 2 85.83 cM

**MW:** 58.2 kDa

**Gene Summary:** This gene encodes a member of the eyes absent protein family. The encoded protein is a tyrosine phosphatase which acts as a transcriptional activator during development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]

**Product images:**



Circular map for MR208530