

## Product datasheet for **RR215682**

### **Eya2 (NM\_130427) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Eya2 (NM_130427) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eya2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR215682 representing NM\_130427  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTAGAAGTGGTGATCTCACCAGCCTCGCAGCAAGCAGTGACTGGGCGGAGCACGGTCCGGCCGTGG  
 GGGCGCTGACTGACAGAGAAGGCCACCGCCAAGCAGCCTCTCTGAGTGTCCCTCAGCTCTTTGCGAAGTC  
 TCACCACGTGTCCCTCCGGGTCACTCCTCGCAGCCATGGCAGCCTATGGCCAGACACAGTACAGCACA  
 GGCATCCAGCAGACGCCACCCTATACAGCGTACCCACCTCCGGCGCAAGCCTATGGAATCCCCCTTACA  
 GTATCAAGACAGAAGACAGTTTGAATCACTCGCCAGCCAGAGTGGTTCTGAGCTACGGACCGAGCTT  
 CAGCACCGCGCTGCTGGACAGAGCCCCACACCTACCCAGTGCACAGCACCGCAGGGCTCTATCAAGGC  
 GCCAACGATTGACCAACACGGCCGGATTTGGGAGCGTGCACCAGGATTACCCCTCTACCCCAACTTCC  
 CACAGAACCAGTACCCCACTATTTAGCCCATCATAACAACCCGCCCTATGTCCAGCCAGCAGCCTCTG  
 CTCTCGCCCTCTCCAGTCCACTACGTCTCCAGGAGGCTCCTCACAATGTCAGCCAGAGTTCTGAG  
 TCACTGGCCGGAGACTACAACACACACAACGGACCCTCCACGCCAGCAAAGGAGGGTGACACAGACAGGC  
 CACATCGGGCCTCGGATGGGAACTACGGGGCCGGTCAAAGAGGAGTAGTGACCCCTCCCAAGTAGGAGA  
 CAATGAAATTGAGCGCGTGTTCGTCTGGGACCTGGACGAGACAATCATATTTCCACTCCCTGCTCACA  
 GGAACGTTTCGATCCAGATATGGGAAGGACACCACGAGCTCAGTGCATCGGCCTGATGATGGAGGAGA  
 TGATCTTCAACCTCGCTGACACACACCTGTTCTTCAATGACCTGGAGGACTGTGACCAAATCCACGTGGA  
 TGATGTCTATCCGATGACAATGGCCAGGACTTAAGCACATAAATTCTCCACTGATGGTTTCCACAGC  
 ACGGCGCCAGGGCCAGCTTGTGCCTGGGTACAGGTGTTACGGCGGTGGATTGGATGAGGAACTAG  
 CCTTCCGCTACCGTCCGGTGAAGGAGATGTACAATACCTACCCCAACAACGTGGGCGGCTGATAGGGCC  
 TCCCAAAAGAGAGACATGGCTGCAGCTGCGCGCTGAGCTGGAGGCCCTGACTGACCTCTGGCTCACCCAC  
 TCCTGAAGGCCCTCAACCTCATCAACTCTCGACCAACTGTGTCAATGTGTTGGTCAACACACACAAC  
 TGATCCCTGCATTGGCCAAGTCTGCTGTATGGTCTGGGCTCCGTGTTCCCATCGAGAACATCTACAG  
 CGCGACCAAGACAGGCAAGGAGAGCTGCTTCGAGAGGATCATGCAGAGGTTGGTTCGAAAGCTGTCTAC  
 ATCGTGATAGGCGACGGGTGGAGGAAGAGCAAGGAGCCAAAAGCACAAATGCCGTTCTGGAGGATAT  
 CCTGCCACGCTGACCTGGAGGCTCTGAGGCATGCCCTGGAAGTGGAGTATCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR215682 representing NM\_130427  
 Red=Cloning site Green=Tags(s)

MLEVVISPSLAASSDWGEHGAAVGALTDREGTAKAASLSVPQLFAKSHPRVPPGQSSAAMAAYGQTQYST  
 GIQQTPPYTAYPPPAQAYGIPPYSIKTEDSLNHSPSQSGFLSYGPSFSTAPAGQSPYTPVHSTAGLYQG  
 ANGLTNTAGFGSVHQDYPSYPNFPQNQPQYFSPSYNPPYVPASSLSSPLSTSTYVLQEAPHNVSQSSE  
 SLAGDYNTHNGPSTPAKEGDTDRPHRASDGKLRGRSKRSSDPSPVGDNEIERVFWVDLDETIIFHSLLT  
 GTFASRYGKDTTTSVRIGLMMEEMIFNLADTHLFFNDLEDQDIHVDDVSSDDNGQDLSTYNFSTDGFHS  
 TAPGASLCLGTGVHGGVDWMRKLAFRYRRVKEMYNTYRNNVGGGIGAPKRETWLQLRAELEALTDLWLTH  
 SLKALNLSRPNVCNVLVTTTQLIPALAKVLLYGLGSVFIENIYSATKTGKESCFERIMQRFGRKAVY  
 IVIGDGVEEEQGAKKHNMFPWRI SCHADLEALRHAALELEYL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

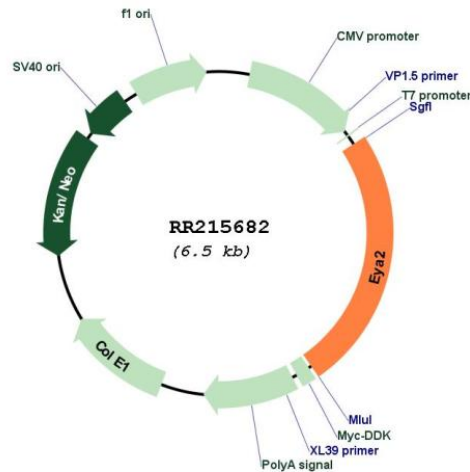
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

**Plasmid Map:**


**ACCN:** NM\_130427

**ORF Size:** 1593 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\\_130427.1](#), [NP\\_569111.1](#)

**RefSeq Size:** 1596 bp

**RefSeq ORF:** 1596 bp

**Locus ID:** 156826

**Cytogenetics:** 3q42

**MW:** 58.1 kDa

**Gene Summary:** member of the eyes absent (EYA) family of proteins; may play a role in eye development; mouse homolog may act as a transcriptional activator [RGD, Feb 2006]