

## Product datasheet for **RG219353**

### **EYA2 (NM\_005244) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EYA2 (NM_005244) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EYA2
Synonyms:	EAB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG219353 representing NM\_005244  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTAGAACTAGTGATCTCACCAGCCTCACTGTAACACAGCATTGTCTGGATAAACTGAAGTTTAAAC  
 GTGCTGACGCTGCTGTGTGGACTCTGAGTGACAGACAAGGCATCACCAAATCGGCCCCCCTGAGAGTGTC  
 CCAGCTCTTCTCCAGATCTTGCCACGTGTCTCCCCCGCCAGCCTTCCACAGCCATGGCAGCCTACGGC  
 CAGACGCAGTACAGTGCGGGGATCCAGCAGGCTACCCCTATACAGTTACCCACCTCCAGCACAAGCCT  
 ATGGAATCCCTTCTACAGCATCAAGACAGAAGACAGCTTGAACCATTCCCCTGGCCAGAGTGGATTCTT  
 CAGCTATGGTCCAGCTTCAACCTCACCCTGGACAGAGCCATACACCTACCAGATGCACGGCACA  
 ACAGGGTCTATCAAGGAGGAAATGGACTGGGCAACGCAGCCGGTTTCGGGAGTGTGCACCAGGACTATC  
 CTCTACCCCGCTTCCCCAGAGCCAGTACCCAGTATTACGGCTCATCTACAACCCTCCCTACGT  
 CCCGCCAGCAGCATCTGCCCTTCGCCCTCTCCAGTCCACCTACGTCTCCAGGAGGCATCTCACAAC  
 GTCCCAACCAGATTCCGAGTCACTTGTGTTGAATACAACACACAAATGGACCTTCCACACCAGCGA  
 AAGAGGGAGACACAGACAGGCCGCCACCGGGCTCCGACGGGAAGCTCCGAGGCCGGTCTAAGAGGAGCAG  
 TGACCCGTCCCCGGCAGGGGACAATGAGATTGAGCGTGTGTTCTGTGGGACTTGGATGAGACAATAATT  
 ATTTTTACTCCTTACTCACGGGACATTTGCATCCAGATACGGGAAGGACACCAGCCTCCGTGCGCA  
 TTGGCCTTATGATGGAAGAGATGATCTCAACCTTGCAGATACACATCTGTTCTTCAATGACCTGGAGGA  
 TTGTGACCAGATCCACGTTGATGACGTCTATCAGATGACAATGGCCAAGATTTAAGCACATACTTCTC  
 TCCGCTGACGGCTTCCACAGTTCGGCCCCAGGACCAACCTGTGCTGGGCTCTGGCGTGCACGGCGCCG  
 TGGACTGGATGAGGAAGCTGGCCTCCGCTACCGCGGGTGAAGGAGATGTACAATACCTACAAGAACA  
 CGTTGGTGGGAAGGAGAGCTGCTTCGAGAGGATAATGCAGAGATTCCGGCAGAAAAGCTGTCTACGTGGTG  
 ATCGGTGATGGTGTGGAAGAGGACAAAGGAGCGAAAAAGCACAACATGCCTTTCTGGCGGATATCTGCC  
 ACGCAGACCTGGAGGCACTGAGGCACGCCCTGGAGCTGGAGTATTTA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG219353 representing NM\_005244  
 Red=Cloning site Green=Tags(s)

MVELVISPSLTVNSDCLDKLKFNRADAAVWTLSDRQGITKSAPLRVSQLFSRSCPRVLPQPSTAMAAYG  
 QTQYSAGIQQATPYTAYPPPAQAYGIPSYSIKTEDSLNHSPGQSGFLSYGSSFSTSPQGQSPYTYQMHT  
 TGFYQGGNGLGNAAGFGSVHQDYPSYGFPPQSQYPOYYGSSYNPPYVPASSICPSPLSTSTYVLQEASHN  
 VPNQSSESLAGEYNTHNGPSTPAKEGDTDRPHRASDGKLRGRSKRSDPSPAGDNEIERVFVWDLDETI I  
 IFHSLLTGTFASRYGKDTTTSVRIGLMMEEMIFNLADTHLFFNDLEDQDIHVDDVSSDDNGQDLSTYNF  
 SADGFHSSAPGANLCLGSGVHGGVDWMRKLAFRYRRVKEMYNTYKNNVGGKESCFERIMQRFGRKAVYVV  
 IGDGVEEEQGAKKHNPFWRISCHADLEALRHALELEYL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_005244

**ORF Size:** 1377 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_005244.3](#), [NP\\_005235.3](#)

RefSeq Size: 2702 bp

RefSeq ORF: 1617 bp

Locus ID: 2139

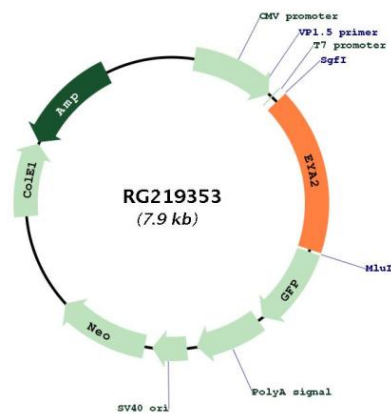
UniProt ID: [O00167](#)

Cytogenetics: 20q13.12

Protein Families: Phosphatase, Transcription Factors

**Gene Summary:** This gene encodes a member of the eyes absent (EYA) family of proteins. The encoded protein may be post-translationally modified and may play a role in eye development. A similar protein in mice can act as a transcriptional activator. Alternative splicing results in multiple transcript variants, but the full-length nature of all of these variants have not yet been determined. [provided by RefSeq, Jul 2009]

### Product images:



Circular map for RG219353