

Product datasheet for **RG202509**

EYA2 (NM_172110) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EYA2 (NM_172110) 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:

>RG202509 representing NM_172110
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTAGAACTAGTGATCTCACCAGCCTCACTGTAACACAGCATTGTCTGGATAAACTGAAGTTTAACC
 GTGCTGACGCTGCTGTGTGGACTCTGAGTGACAGACAAGGCATCACCAAATCGGCCCCCTGAGAGTGTC
 CCAGCTCTTCTCCAGATCTTGCCACGTGTCTCCCCCGCCAGCCTTCCACAGCCATGGCAGCCTACGGC
 CAGACGCAGTACAGTGCGGGGATCCAGCAGGCTACCCCTATACAGCTTACCCACCTCCAGCACAAGCCT
 ATGGAATCCCTTCTACAGCATCAAGACAGAAGACAGCTTGAACCATTCCTGGCCAGAGTGGATTCTT
 CAGCTATGGTCCAGCTTACGACCTCACCCTGACAGAGCCATACACCTACCAGATGCACGGCACA
 ACAGGGTCTATCAAGGAGGAAATGGACTGGGCAACGCAGCCGGTTTCGGGAGTGTGCACCAGGACTATC
 CTCTACCCCGCTTCCCCAGAGCCAGTACCCAGTATTACGGCTCATCTACAACCTCCCTACGT
 CCCGCCAGCAGCATCTGCCCTTCGCCCTCTCCAGTCCACCTACGTCTCCAGGAGGCATCTCACAAC
 GTCCCAACCAGAGTTCCGAGTCACTTGTGTTGAATACAACACACAAATGGACCTTCCACACCAGCGA
 AAGAGGGAGACACAGACAGGCCGCCACCGGGCTCCGACGGGAAGCTCCGAGGCCGGTCTAAGAGGAGCAG
 TGACCCGTCCCCGGCAGGGGACAATGAGATTGAGCGTGTGTTCTGTGGGACTTGGATGAGACAATAATT
 ATTTTTACTCCTTACTCACGGGACATTTGCATCCAGATACGGGAAGGACACCAGCCTCCGTGCGCA
 TTGGCCTTATGATGGAAGAGATGATCTCAACCTTGCAGATACACATCTGTTCTTCAATGACCTGGAGGA
 TTGTGACCAGATCCACGTTGATGACGTCTATCAGATGACAATGGCCAAGATTTAAGCACATACTTCTC
 TCCGCTGACGGCTTCCACAGTTCGGCCCCAGGACCAACCTGTGCTGGGCTCTGGCGTGCACGGCGCCG
 TGGACTGGATGAGGAAGCTGGCCTCCGCTACCGCGGGTGAAGGAGATGTACAATACCTACAAGAACA
 CGTTGGTGGGAAGGAGAGCTGCTTCGAGAGGATAATGCAGAGATTCGGCAGAAAAGCTGTCTACGTGGTG
 ATCGGTGATGGTGTGGAAGAGGACAAAGGAGCGAAAAAGCACAACATGCCTTTCTGGCGGATATCTGCC
 ACGCAGACCTGGAGGCACTGAGGCACGCCCTGGAGCTGGAGTATTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG202509 representing NM_172110
 Red=Cloning site Green=Tags(s)

MVELVISPSLTVNSDCLDKLKFNRADAAVWTLSDRQGITKSAPLRVSQLFSRSCPRVLPQPSTAMAAYG
 QTQYSAGIQQATPYTAYPPPAQAYGIPSYSIKTEDSLNHSPGQSGFLSYGSSFSTSPQGQSPYTYQMHT
 TGFYQGGNGLGNAAGFGSVHQDYPSYPGFQSQYPOYYGSSYNPPYVPASSICPSPLSTSTYVLQEASHN
 VPNQSSESLAGEYNTHNGPSTPAKEGDTDRPHRASDGKLRGRSKRSDPSPAGDNEIERVFVWLDDETI
 IFHSLLTGTFASRYGKDTTTSVRIGLMMEEMIFNLADTHLFFNDLEDQDIHVDDVSSDDNGQDLSTYNF
 SADGFHSSAPGANLCLGSGVHGGVDWMRKLAFRYRRVKEMYNTYKNNVGGKESCFERIMQRFGRKAVYVV
 IGDGVEEEQGAKKHNPFWRISCHADLEALRHALELEYL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_172110

ORF Size: 1377 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_172110.3](#)

RefSeq Size: 2406 bp

RefSeq ORF: 1380 bp

Locus ID: 2139

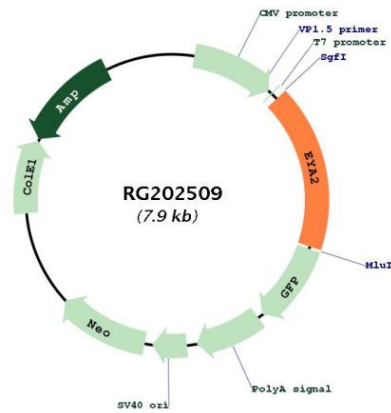
UniProt ID: [O00167](#)

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 RG202509