

Product datasheet for **MC219697**

Eya4 (NM_010167) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eya4 (NM_010167) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eya4
Synonyms:	B130023L16Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219697 representing NM_010167
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGACACCCAGGACCTAAATGAGCAATCTGTAAAGAAAACGTGCCAGAAGCAGATGTTTCGGAAC
 CTCAGAATTCCAGGTCTATGAAAATGCAAGACCTAGCAAGTCCCCATGCCTTGGTTGGAGGCAGTGATAC
 ACCTGGGAGCTCCAAGCTGGATAAATCTGGTCTCAGCAGCACTTCAAGTCAACAACAATGGGACAGGAGTG
 TCTCTTCTGAGTCAAAACAGAGCCCTTGACAGCAGTGAAGTCCACTACCAGACTGGAGATGGAGCGC
 TTGACACTTTTACTGGGTGAGTAATAACAAGCAGCGGCTACAGCCCAGGTGGGCGCAGCAGTACTCTCC
 ACAGCTGTACCCCTCCAAGCCCTATCCACACATTTCTTTCTACACCAGCAGCTCAAACAATGTCGGCTAT
 GCAGGCCAGACTCAGTACTCTGGGATGCAGCAGCCGGCCGTCTACACAGCCTACTCGCAGACAGGACAGC
 CCTACAGCCTGCCTGCCTACGATCTTGGTGTGATGTTGCCAGCCATCAAGACGAAAAGTGGGCTTTCCCA
 AACTCAGTCCCCGTTACAGAGTGGCTGCCTGAGCTACAGCCCTGGGTTTTCTACCCACAGCCAGGCCAG
 ACGCCTTACTCTTACCAATGCCAGTTCCAGCTTGCACCATCGTCTACTATTTATGCAATAATTCCG
 TTTCTAATTCAACAACTTCAGCAGCTCACAGCAGGATTACCCATCCTACACAGCCTTTGGCCAAAACCA
 ATATGCTCAGTATTACTCAGCATCAACCTATGGGGCATACATGACATCAAACAACACAGCTGACGGCACA
 TCATCGTCAACATCAACTTATCAGCTGCAGGAATCTCTCCAAGGACTGACTAGCCAACCAGGAGAGTTTG
 ATACAGTGCAGAGTCCCTCCACACCAATCAAAGATCTCGATGACAGAACATGTAGAAGTTCTGGGTCAA
 GTCTCGAGGAAGAGGCCGAAAAATAATCCCTCCCACCTCCGGACAGTGACCTAGAGCGTGTGTTTGTG
 TGGGACTGGATGAAACCATCATCGTCTTCCACTCTCCTCACGGGCTTTATGCACAGAAGTATGGCA
 AGGATCCCCCAATGGCTGTGACTCTCGGGCTCCGGATGGAAGAAATGATCTTTAATCTTGACATACACA
 TTTGTTTTTAAATGACTTAGAGGAGTGTGATCAAGTTCATATAGATGATGTTTCCCTCCGACGACAATGGT
 CAGGACTTAAGTACCTACAGTTTTGCAACTGATGGCTTCCATGCAGCTGCAAGTAGTGCGAACCTTTGTT
 TGCCAACAGGTGTGAGAGGAGGAGTGGACTGGATGAGGAAGCTGGCTTTTCGTTACAGAAGAGTAAAGGA
 ATTATATAACACCTACAAGAACAATGTTGGAGGACTCCTTGGCCCTGCTAAGAGGGATGCATGGCTGCAG
 TTAAGGGCAGAGATCGAAGGCCTAACAGATTCTGGCTAACGAATGCACTTAAGTCTTTATCAATTATTA
 GTACTAGGAGTAACTGTGTAATGTCTTGGTAACGACAACCCAGCTGATTCTGCTCTTGCAAAAAGTCTC
 GCTCTACAGCCTAGGAGGTGCTTTCCCATTTGAGAACATTTACAGCGCAACGAAAATAGGAAAAGAAAGT
 TGCTTTGAGCGAATAATGCAAAGTTTGGCAGAAAAGTAGTGTATGTTGTAATTGGGGATGGTGTAGAAG
 AAGAGCAGGCAGCAAAAAGCACAAATGCCCTTTGGAGGATATCAAGCCACTCGGACCTCTTGGCTCT
 ACATCAAGCACTGGAATTAGAGTATTT**GTAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_010167

Insert Size: 1851 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_010167.4](#), [NP_034297.2](#)

RefSeq Size: 4099 bp

RefSeq ORF: 1851 bp

Locus ID: 14051

Cytogenetics: 10 10.44 cM

Gene Summary: Tyrosine phosphatase that specifically dephosphorylates 'Tyr-142' of histone H2AX (H2AXY142ph). 'Tyr-142' phosphorylation of histone H2AX plays a central role in DNA repair and acts as a mark that distinguishes between apoptotic and repair responses to genotoxic stress. Promotes efficient DNA repair by dephosphorylating H2AX, promoting the recruitment of DNA repair complexes containing MDC1. Its function as histone phosphatase probably explains its role in transcription regulation during organogenesis. May be involved in development of the eye (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.