

Product datasheet for MC202813

Eya3 (NM_010166) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eya3 (NM_010166) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eya3
Synonyms:	A1844637
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC063259 sequence for NM_010166
CGTCCCATGTCGTGCTGGGCAGTGTCTGCAGCCGTCTGTTTGTGAAGACCGCAGAGACCTGCAATTTCAGT
CCCCTAAGTGTGTTAGGAGATAGTCTCCTCATGGAAGAAGAGCAAGACCTACCAGAGCAACCGGTGAAA
AAAGCCAAGATGCAGGAACCAAGAGAACAGACTTTAAGTCAAGTAAACAACCCAGATGCCAGTGATGAGA
AGCCTGAGACATCCAGCCTTGCCTCAAATCTCAGCATGTCAGAGGAAATTATGACATGCACCGATTACAT
CCCTCGCTCATCCAATGATTATACCTCACAAATGTATTCTGAAAACTTATGCACACATCCTCTCAGTT
CCTGTTTCGGAACCACTTATCCTGGGCAGACTCAGTACCAGACTGCAGCAATCTCAACCCTACGCTG
TCTACCCTCAGGCAACCAAACTTACGGACTACCTCTTCGCTTCAAGCACAAATGCCAGCCTGATACC
CACTTCATCTGCAATTGCCAATATTCCAGCAGCAGCTGTGGCCAGCATCTCAAACCAGGATTATCCCACC
TATACTATTCTTGACAGAATCAGTACCAGGCCTGCTACCCAGTTCAGCTTTGGAGTCACAGGTCAGA
CTAACAGTGATGCTGAGACCACAACATTAGCAGCTACAACATACCAGACGGAGAAGCCTAGTGCTATGGT
GCCTGCACCAGCCACACAGAGGCTTCCCTCCGACTCCTCTGCAAGCCACCTTTGTCACAGACTACACCA
AATAAAGATGCTGATGATCAGGCCAGGAAAAACATGACTGTCAAGAACCAGGGCAAGAGGAAAGCTGATG
CCAGCTCTTCCCAGGACAGTGAATTGGAACGGGTATTTCTCTGGGACTTGGACGAAACCATCATCATCTT
TCATTCCCTTCTCACTGGATCCTATGCTCAGAAGTATGGAAGGACCCAAACAGTAGTAATTGGCTCAGGT
TTAACCATGGAAGAAATGATTTTGAAGTGGCTGATACACATCTATTTTCAATGACTTAGAGGAGTGTG
ACCAGGTGCATGTGGAAGATGTGGCTTCTGATGACAATGGCCAGGATTTGAGCAACTACAGTTTCTCCAC
AGATGGTTTCAGTGGTTCAGGAGGCAGTGGTAGCCACGGCTCATCTGTGGCGTTTCAGGGAGGTGTGGAC
TGGATGAGGAAACTGGCCTTTTCGCTACCGAAAAGTGAGGAAAATCTACGACAAGCATAAAAAGCAATGTGG
GTGGCCTCCTCAGCCCCCAGAGGAAGGAAGCACTGCAGAGACTCAGAGCAGAGATCGAGGTGCTGACGGA
CTCCTGGTTAGGAACTGCGCTCAAGTCTTCTCCTCATCCAGTCTCGAAAGAACTGTGCGAATGTTCTG
ATCACTACCAGCAGTGGTTCCAGCCCTGGCCAAGGTTCTCCTGTATGGACTAGGAGAGATATTTCCCTA
TTGAAAACATCTACAGTGTACCAAAAATCGGTAAGGAGAGCTGCTTTGAGAGAATTGTTTCGAGGTTTGG
GAAAAAAGTCACATATGTAGTATTGGAGATGGACGAGATGAAGAAATTGCAGCCAAGCAGCACAAACATG
CCCTTCTGGAGGATCACAAACCAGGAGATCTGGTGTCCCTGCACCAGGCTTTAGAGCTTGACTTCTCTCT
GAGAACTGGAATGTGGACCTTCTTCTTGTGAGCTTCTTTTACCTCCAACAGGAGCCAGAAGCCAGA
ACCCTCTGAGCCCTTCTCTCTGTCTGTCTCTCGGGTCTCAGTGCCCTTCCCCTTCTCTTCTGTCTCT



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TTCTCCCTCCATGAAATGCTGGCGAGAACAATCAGAACCAACAACTGCAGTTATTCTGAGTGAGCTGC
 AGCCCATGTCCCCTGTACAGCAAGAGGTGGCTGGATAGAGCTGCAGACCCGGCTGCCGCTACCGTGTCTTA
 ATTTTTCTGTTTCAATTGAAAAAGGAAGAAACAAGAAAAGCCGATGCTTGGGGCACAGTTGTACTCTTGCT
 GCATGACGGACTGACCCGGGAGCTGCTCCTGATGTGGATGGAACTGTCCCTTGAGATCGTCTTCTGGTC
 TCTTAGCTATAGAATGTCTCTCCAGTGAATGGGTATGTTATTTTTATAGGTGAGGGTCTGGTCTCTACA
 GCAGCCTCCCCACTTTTCTATGAAGAAAGCCGTGTGTAAGTTTCCGTGACAGTAGTAATGGAAATATC
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 TACAAGGCCCTGGTCACTTACTTTAGACTGTGGCATCTCCCATCTTGTAAGCCTCGGTCTCCTTGGCAGT
 CCTCCTTCATCTGTAACATAATGGCACAACCCTGGAACTCCTTCCCATAGACAATAATCTAAGCCTTT
 AGCTTGTACTTCAGAAGTTCTGTCCCAGGAGGCTCAGCCTCCAGACTGGAGAGAAGGGCTCAGATTTCTT
 AGGACTTTCACCTCGTGTCTCTGCAGAGCAGTACCTGTTCCAGCAGATGCTTCTCTGTGGTCGGCTCA
 GTCGTGAGATGCTGGCCTCACGTCTGTCTCACAGTACCTGTCTGTGCAGCTCTGGCCAGCCCTA
 CCCACTCATTGCAAGTCAGAAAGGCCAAGGGGGCAGGCTCTAGCTGCCTCCTTACCTGCACCTACATGC
 GGTGATCCACCTTGTATTTATACAGATCTCTGCCTACGAGTGGAGAGCAGAGAGCTAGAGTCAAAACCC
 ATGAAATATCCCCTGCTTAGAGTCCATGCTGAAGTGGGAAACCAGGCCAGAAAGACTTTCTTGACTTAA
 GTGCTTAAAAATACAATCCTGAGCTAGGTGCAAGAGCACCTCTCAAGGCTGCCCTAGTCAAGTCAAGGAGG
 GAAACTGGGCCTTAGTGCCAGCCGCAAGCCAGCTGTGTTTTGGTTTTATTTTGGTTTTTGTGGGTT
 TTTTGGTTGTTTTTACGGCACTATCCCTTCCAGGACCAATGTCCGTGCCTGTTAATTGGGTTAAACGTC
 CCTAGAGTTGAGGAAATGTGCAGCCTTGGTCTTCCAGGAGTCTTGACCAACCCCTAGCTATAGTCACTG
 TCCGCAGCGATACCACAGCCAGAGGCAAAATCCTCTTCATGCTAGGCTACCAGATAACGACAGAAAGG
 CTGACACCACCTCAGAACTGTTGGACACTTCTGAGTACTTCTGAGACCAGCAGTTGAGGAAGGGGCTCA
 GACAGGAGGTGAGTTTTGTGCTTGGCCATTCTTTGGCTTTGTTGTGAGTACTGGGTGGGAGCAAGGA
 GCTAGAGTCTAAGTCAGACCCTCCTAGGCTGCCATTAGCACACACCCGCTACCCTAGTCTGGCCAGCCTT
 GCTTGGTGGTCCAACCTGGGAAACTCCAGGATGAGTTTTACTTCCAAGTCTCAGTCTTCCCTCATTAAAC
 AGTGGAGTTTTCTGTGCTGGACAACGCCACCTATTAGTGTGTGCTTCCAGGCTCACCAGACTGCCAAGTG
 GCGACACACCCTTCTGCACACAGGTACCACCACAAACACTTCCAGGGGAGACTCTTCTTAGAATAAACAG
 GTAATCCCTTTCTCTTGGCCTGACTGGAGAGGCAAGGAGTGTCTGAGCTGAGTGGCTACTGTTCCCAA
 AGCAGCTACCCTGTCCAGGTAGACAGAGGAGTGCATTGGTCTCTCCAGGGACTGTGCCTTTGTGCTGAC
 TCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCAACCCACCCACAGAGGCTTGGGAAGGAAAATGAGC
 AGGCAGCATCAAGAGCTGCTAGTAAGAGAAAGACAGCTTGGTGGTAATAGCACCCGACGTTGTGCAGAG
 GTCCAAGTTTTGAGCACCCACAAGGCTATTCAACCTCTAGCTGCAGCTCCAGGGGTTGTTGCCCTC
 TTCTGGCCTCTTCCAGGCACCAAGCACTTATATAGTGTAAAGAACTCATAAAATAGAAATTCCTTTTA
 ATATTAAGGCTGTTGGAAGTTAGAAGGAGTCCCTTACTGAAGGAACACCTTGAAGAAATAGCTGGTGA
 ATCTTTTCCCTGTGATCCTGTGTTCTGGAAGATTAGTCAGGACATCTCATGGTGACAGCTAGTTCTAG
 GAGTGTGTGGGTGGCAGGAATGCTCTGGGATACAAGGTGGCTTACTTTTGAATGTAAAAGTACTGTG
 CCTTAGCATCACCTGTCCAGTGGCCCTGGGGCAGCCGGTGTGTCGCGAGAGTGGATACCTGTCCAC
 ATTTTAGGTGCCTACTTGGGCTTTGATTTGGGGGTGTTCTTCTCTGCTAGTCCGGTGACAGCTAGTG
 TCCCAAGAGACTTGGCACAGCTTGTCCGTGTTACCCCAAGCTCAACCTTACAGCTCCAAGTAGAATCTG
 ACTGGCAAGCTGCAGCAGCAAGCTCATGGCGCTTCCATAGACACTGCTTTGAATGGGAGTACACAACCTG
 ACAGGAGCACCAGGCAGAGCTCGGTGCTGTCTGGAAGAGTGCAGGCTAGCCGCCAAGTGCCAAGCTTGG
 GCCTCATTCTCACTCTCCCAAGGTAGCTGAGGCCCTTGAAGCGTGTGCTCCCGGCTGCTCACTGGT
 CAAGCAGCTAGAATAACCCAGACACACCCATTGTAGATGCCAGGTTGGCGTTCTGAGCTTCCCAAACATC
 TAAACCACGAGGGGGAGAACCCCGCTTGTGCCAGCCTCATCTGCGGGCCGCTTGCCTCCCTTACCC
 TGAGTCAATTCTAGTGAATGAGTCCCTGGCTGCCTCCTCACACTGAGCGGAGCCATCCAGTTCAGGA
 CCATTTCTACTTGGATCTCCACTCTCCCTCTGGACTCCAGATGCCTCTGTAGCAGGAAAAGGCATCCATG
 GGTGGGATATATATTTATGTGACTGCGGGCATTGTGGCTATAGAGTCTTGACCATAATGTTATATG
 TAATGGGAATCTTATAAACTTGAAAAATAAAGTTTTTATTTCTAAAAAATAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI
ACCN: NM_010166
Insert Size: 1581 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:	<ol style="list-style-type: none">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:	BC063259 , AAH63259
RefSeq Size:	5108 bp
RefSeq ORF:	1581 bp
Locus ID:	14050
UniProt ID:	P97480
Cytogenetics:	4 65.68 cM
Gene Summary:	<p>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 (By similarity). Its function as histone phosphatase probably explains its role in transcription regulation during organogenesis. The phosphatase activity has been shown in vitro. Coactivates SIX1. Seems to coactivate SIX2, SIX4 and SIX5. The repression of precursor cell proliferation in myoblasts by SIX1 is switched to activation through recruitment of EYA3 to the SIX1-DACH1 complex and seems to be dependent on EYA3 phosphatase activity. May be involved in development of the eye. May play a role in mediating the induction and differentiation of cranial placodes.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. It encodes isoform 2 which has a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>