

Product datasheet for **MC217504**

Foxn4 (NM_148935) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Foxn4 (NM_148935) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Foxn4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217504 representing NM_148935
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATAGAAAGTGGCATTGGTCCAGAATGTCAGAAATGATCAGAAGCTCGGGGCACAGCCACCCTGCT
 CTCACAGGAATACAGGTTTCTGCCTCCCGTGGGTGACGACGACCTCCCTGGGGACCTTCAGTCGCTGTC
 CTGGCTCACGGCCGTGGACGTGCCTCGACTGCAGCAGATGGCAAATGGGCGGATAGACCTGGGCAGTTCA
 GGTGTGACACATCCACACCCAGGTGCCTGGTGGGACAGCAGACCTGCATGTGGGTGCGGCCCCACGTC
 CCCTGCTCCGCCGACCCAGACTGCCGTGGTCCCCAGGGGTGTGCTGGGCTTGAGCCCTATAGGCAACCA
 CAGAGCCAGCGCTGAGCAGATGAACCAGTTCCTGCAGGAGGCCAGGCATCATCGGGCTCCAGGAAATG
 CCACAGCTGTACTCCCAGCTACCCAAATCCCCTTCCCTGCTGCTGGGGTCCCAGCAGTGCCTCCTG
 CCGGCCTCTATGGTTCTCCGTTTTGGCTCGGCCCTTCTACCCACAGGCCACGGGGCAATGCATGCGTC
 TCAGGAGCCACACCCAAACACTACCCCAAGCCATCTACTCCTACAGCTGTCTGATCGCCATGGCCTTG
 AAGAACAGCAAAACAGGCAGCTTGCCCGTGAGTGAGATCTACAGCTTCATGAAGGAGCACTTCCCCTACT
 TCAAGACAGCACCTGACGGCTGGAAGAACTCCGTGAGGCACAACCTGTCCCTGAACAAGTCTTCGAGAA
 GGTGGAACCAAGTCCAGCGGCTCCTCACGCAAGGGCTGCCTGTGGGCCCTGAACCTGGCTCGCATCGAC
 AAGATGGAGGAGGAGATGCACAAGTGGAAACGAAAGGACCTCGCTGCCATACACCGCAGCATGGCCAACC
 CTGAGGAGTTGGACAAGCTCATCTCAGACCGCCGGAAAGCTGCCGGCGTCTGGAAAACGAGGAGAGCC
 TAAAGCCCCATGCTAACTATGCCACCACGGTGGCCATGGCCCCACAGCTGCCTGGCCATCTCCCAACTC
 CCACCAAAGCCACTGATGACCTGTCCCTGCAGTCAGTGCCTCTGCACCACCAGCTCCAGCCCCAGGCAC
 ACCTGGCCCCAGACTCCCCGGCACCCAGCACAGACCCCACTTTCATGCCCTACCCAGTCTCAGCCCCAGG
 GCCTCTCCCGCAGCCAGCCATGGGTAGGGTTCCTGGGGACTTCCCAACATCAACAGTGACATGAACACA
 GAGGTGGACGCCCTGGACCCAGCATCATGGACTTCGCTCTACAGGGTAACCTGTGGGAAGAGATGAAGG
 AGGACAGCTTCAGCCTAGACAGCTGGAGGCCCTTGGAGACTCCCCGCTTGGCTGCGACCTGGGAGCCCC
 AAGCCTGACCCCTGTCTCTGGCAACAGTGACCAGTCTTCCCTGATGTGCAGGTGACAGGTCTCTATGCT
 GCCTACTCCACTGCCGACAGCGGTGTGGCCCCATCAGCGGCCAACTCTGCGCAGTACCTGGGTACACCAG
 GGAACAAGCCTATTGCTCTGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_148935
- Insert Size:** 1566 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_148935.2](#), [NP_683737.2](#)

RefSeq Size: 2970 bp

RefSeq ORF: 1566 bp

Locus ID: 116810

UniProt ID: [Q8K3Q3](#)

Cytogenetics: 5 F

Gene Summary: Transcription factor essential for neural and some non-neural tissues development, such as retina and lung respectively. Binds to an 11-bp consensus sequence containing the invariant tetranucleotide 5'-ACGC-3'. During development of the central nervous system, is required to specify the amacrine and horizontal cell fates from multipotent retinal progenitors while suppressing the alternative photoreceptor cell fates through activating DLL4-NOTCH signaling. Also acts synergistically with ASCL1/MASH1 to activate DLL4-NOTCH signaling and drive commitment of p2 progenitors to the V2b interneuron fates during spinal cord neurogenesis. In development of non-neural tissues, plays an essential role in the specification of the atrioventricular canal and is indirectly required for patterning the distal airway during lung development.[UniProtKB/Swiss-Prot Function]