Product datasheet for SC329330

AFF2 (NM_001169124) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: AFF2 (NM_001169124) Human Untagged Clone
Tag: Tag Free
Symbol: AFF2
Synonyms: FMR2; FMR2P; FRAXE; MRX2; OX19
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 μg/mL)
Cell Selection: None
Fully Sequenced ORF: >NCBI ORF sequence for NM_001169124, the custom clone sequence may differ by one or more nucleotides

ATGGATCTATTCGACTTTTTCAGAGACTGGGACTTGGAGCAGCAGTGTCACTATGAACAA
GACCGTAGTGCACTTAAAAAAGGAATGGAAGCGAGAAATCAAAGAAGTCCAGCAAGAA
GACGATCTCTTTTCTTCAGGCTTTGATCTTTTTGGGGAGCCATACAAGGTAGCTGAATAT
ACAAACAAATCCAGACATCCACACCAGAAGATTAAAAATAGAAACAAAGCTTTTTCAGAGA
AGAATAATTCCACACCAAGGATATACCCCATCTTCCACCAATTCGTCCTACCTTCT
GGTGTGATCTTCAATTCAATACGCAACAGAAAAACTAAAAAAGAAAAATCAAAGCTTTTTTCCAA
ACGAAACTTCCACACCCACAGATGAGATACCAAGATCAAACCTGAAACAAAGAAGACTTCT
GAGAATCTGGAGGAAATTCCACACTGCAAGAGCTTGTTCTACCCAGACCGAGAGATGAC
CATTACCAAGACCTGCAAGAGCTTGTTCTACCCAGACCGAGAGATGAC

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Restriction Sites:
Please inquire

ACCN: NM_001169124

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frame shifts, and is delivered as lyophilized plasmid DNA.

RefSeq: NM_001169124, NP_001162595.1
RefSeq Size: 13641 bp

RefSeq ORF: 3831 bp

Locus ID: 2334

Cytogenetics: Xq28

Protein Families: Druggable Genome

Gene Summary: This gene encodes a putative transcriptional activator that is a member of the AF4/FMR2 gene family. This gene is associated with the folate-sensitive fragile X E locus on chromosome X. A repeat polymorphism in the fragile X E locus results in silencing of this gene causing Fragile X E syndrome. Fragile X E syndrome is a form of nonsyndromic X-linked cognitive disability. In addition, this gene contains 6-25 GCC repeats that are expanded to >200 repeats in the disease state. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2016]

Transcript Variant: This variant (4) has multiple differences, compared to variant 1. The encoded isoform (4) is shorter than 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.