

Product datasheet for RC214186

DNAAF4 (NM_130810) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAAF4 (NM_130810) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNAAF4
Synonyms:	CILD25; DYX1; DYX1C1; DYXC1; EKN1; RD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214186 representing NM_130810 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCTTCAGGTTAGCGATTACAGCTGGCAGCAGACGAAGACTGCGGTCTTTCTGTCTCTGCCCTCA
AAGGCGTGTGCGTCAGAGACACGGACGTGTTCTGCACGGAAAACATCTGAAGGTCACTTTCTCCATT
TTTATTTGAGGCATTTCTTTATGCTCCCATAGACGATGAGAGCAGCAAAGCAAAGATTGGGAATGACACC
ATTGTCTTACCTTGTATAAAAAAGAAGCGCCATGTGGGAGACCCTTTCTGTGACGGGTGTTGACAAAG
AGATGATGCAAAGAATTAGAGAAAAATCTATTTTACAAGCACAAGAGAGAGCAAAGAAGCTACAGAAGC
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AGGAAAAAATAGAAGATATGAAAGAAAATGAACGGATAAAAGCCACTAAAGCATTGGAAGCCTGGAAAG
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AATTAAGAAGAAAAGAAAAAATAAATAAAGAGTCTTACTAGAAATTTGGCATCTAGAAATCTTGCT
CCAAAAGGAGAAATTCAGAAAATATTTACTGAGAAGTTAAAGGAAGACAGTATTCTGCTCCTCGCT
CTGTTGGCAGTATTAATCAACTTTACCCCTCGAGTATCCCAACAGCTCTTCGTGAATCACAAGTAGC
AGAAGAGGAGGAGTGGCTACACAACAAGCTGAGGCACGAAGAGCAATGAATACTGACATAGCTGAACCT
TGCGATTTAAAAGAAGAAGAAAAGAACCCAGAATGGTTGAAGGATAAAGGAAAACAATTTGTTGCAACGG
AAAATTTTGGCAGCTATCAATGCATATAATTTAGCCATAAGACTAAATAATAAGATGCCACTATTGTA
TTTGAACCGGGCTGCTTGCCACCTAAAACCTAAAAAATACACAAGGCTATTGAAGATTCTTCTAAGGCA
CTGGAATTATTGATGCCACCTGTTACAGACAATGCTAATGCAAGAATGAAGGCACATGTACGACGTGGAA
CAGCATTCTGTCAACTAGAAATGATGTAGAAGGCCTACAGGATTATGAAGCGGCACTTAAGATTGATCC
ATCCAACAAAATTGTACAAATGATGCTGAGAAGATTCGGAATGTAATTC AAGGAACAGA ACTAAAATCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC214186 representing NM_130810
 Red=Cloning site Green=Tags(s)

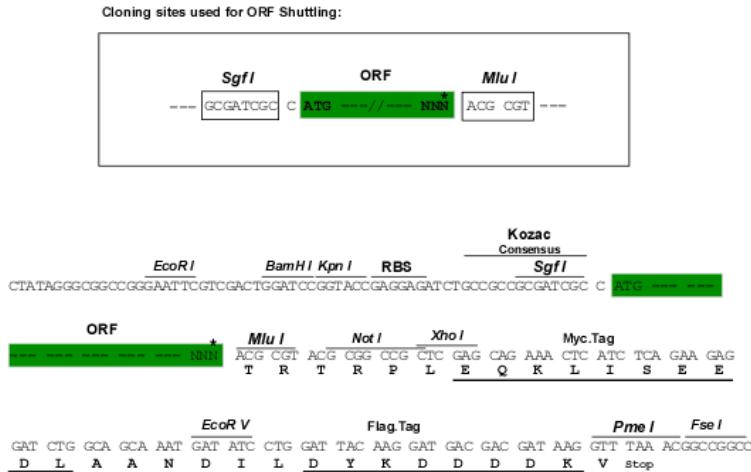
MPLQVSDYSWQQTKTAVFLSLPLKGVCRD TDVFC TENYLKVNFPFLFEAFLYAPIDDESSKAKIGNDT
 IVFTLYKKEAAMWETLSVTGVDKEMMQRIREKSILQAQERAKEATEAKAAAKREDQKYALSYMMKIEEEE
 RKKIEDMKENERIKATKALEAWKEYQRKAEEQKKIQREEKLCQKEKQIKEERKKIKYKSLTRNLASRNLA
 PKGRNSENIFTEKLKEDSIPAPRSVGSIKINFTRPVPTALRESQVAEEEEEWLHKQAEARRAMNTDIAEL
 CDLKEEEKNPEWLKDKGNKLFATENYLAAINAYNLAIRLNNKMPLLYLNRAACHLKLKNLHKAIEDSSKA
 LLELLMPPVTDNANARMKAHVRRGTAFQCLELYVEGLQDYEAALKIDPSNKIVQIDA EKIRNVIQGT ELKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8058_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_130810

ORF Size: 1260 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_130810.4](#)

RefSeq Size: 1993 bp

RefSeq ORF: 1263 bp

Locus ID: 161582

UniProt ID: [Q8WXU2](#)

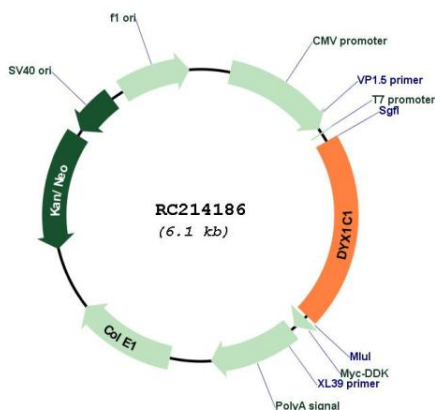
Cytogenetics: 15q21.3

Domains: TPR

MW: 48.3 kDa

Gene Summary: This gene encodes a tetratricopeptide repeat domain-containing protein. The encoded protein interacts with estrogen receptors and the heat shock proteins, Hsp70 and Hsp90. An homologous protein in rat has been shown to function in neuronal migration in the developing neocortex. A chromosomal translocation involving this gene is associated with a susceptibility to developmental dyslexia. Mutations in this gene are associated with deficits in reading and spelling. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the downstream cell cycle progression 1 (CCPG1) gene. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RC214186