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Product datasheet for RC214248

DNAAF4 (NM_001033559) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAAF4 (NM_001033559) 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:

>RC214248 representing NM_001033559
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTCTTCAGGTTAGCGATTACAGCTGGCAGCAGACGAAGACTGCGGTCTTTCTGTCTCTGCCCCTCA
AAGGCGTGTGCGTCAGAGACACGGACGTGTTCTGCACGGAAAACTATCTGAAGGTCAACTTTCCTCCATT
TTTATTTGAGGCATTTCTTTATGCTCCCATAGACGATGAGAGCAGCAAAGCAAAGATTGGGAATGACACC
ATTGTCTTCACCTTGTATAAAAAAGAAGCGGCCATGTGGGAGACCCTTTCTGTGACGGGTGTTGACAAAG
AGATGATGCAAAGAATTAGAGAAAAATCTATTTTACAAGCACAAGAGAGAGCAAAAGAAGCTACAGAAGC
AAAAGCTGCAGCAAAGCGGGAAGATCAAAAATACGCACTAAGTGTCATGATGAAGATTGAAGAAGAAGAG
AGGAAAAAAATAGAAGATATGAAAGAAAATGAACGGATAAAAGCCACTAAAGCATTGGAAGCCTGGAAAG
AATATCAAAGAAAAGCTGAGGAGCAAAAAAAAATTCAGAGAGAAGAGAAATTATGTCAAAAAGAAAAGCA
AATTAAAGAAGAAAGAAAAAAAATAAAATATAAGAGTCTTACTAGAAATTTGGCATCTAGAAATCTTGCT
CCAAAAGGGAGAAATTCAGAAAATATATTTACTGAGAAGTTAAAGGAAGACAGTATTCCTGCTCCTCGCT
CTGTTGGCAGTATTAAAATCAACTTTACCCCTCGAGTATTCCCAACAGCTCTTCGTGAATCACAAGTAGC
AGAAGAGGAGGAGTGGCTACACAAACAAGCTGAGGCACGAAGAGCAATGAATACTGACATAGCTGAACTT
TGCGATTTAAAAGAAGAAGAAAAGAACCCAGAATGGTTGAAGGATAAAGGAAACAAATTGTTTGCAACGG
AAAACTATTTGGCAGCTATCAATGCATATAATTTAGCCATAAGACTAAATAATAAGATGCCACTATTGTA
TTTGAACCGGGCTGCTTGCCACCTAAAACTAAAAAACTTACACAAGGCTATTGAAGATTCTTCTAAGGCC
TACAGGATTATGAAGCGGCACTTAAGATTGATCCATCCAACAAAATTGTACAAATTGATGCTGAGAAGAT
TCGGAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC214248 representing NM_001033559
Red=Cloning site Green=Tags(s)

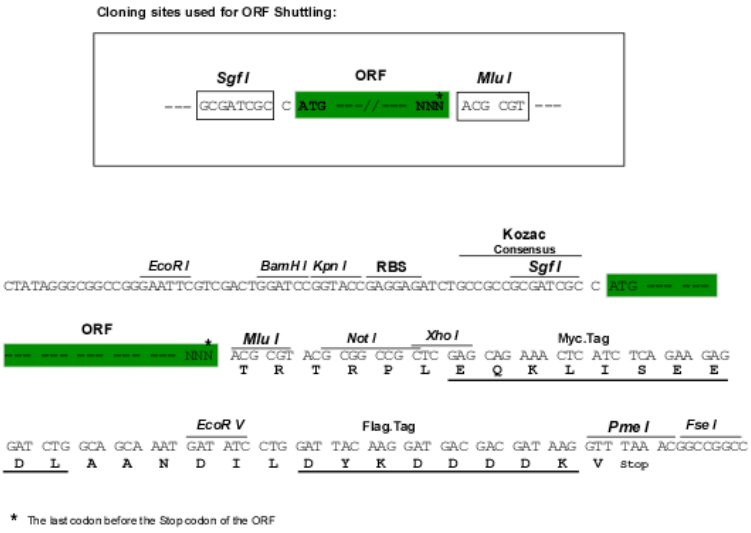
MPLQVSDYSWQQTKTAVFLSLPLKGVCVRDTDVFCTENYLKVNFPPFLFEAFLYAPIDDESSKAKIGNDT
IVFTLYKKEAAMWETLSVTGVDKEMMQRIREKSILQAQERAKEATEAKAAAKREDQKYALSVMMKIEEEE
RKKIEDMKENERIKATKALEAWKEYQRKAEEQKKIQREEKLCQKEKQIKEERKKIKYKSLTRNLASRNLA
PKGRNSENIFTEKLKEDSIPAPRSVGSIKINFTPRVFPTALRESQVAEEEEWLHKQAEARRAMNTDIAEL
CDLKEEEKNPEWLKDKGNKLFATENYLAAINAYNLAIRLNNKMPLLYLNRAACHLKLKNLHKAIEDSSKA
YRIMKRHLRLIHPTKLYKLMLRRFGM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8055_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033559

ORF Size: 1128 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_001033559.2, NP_001028731.1

RefSeq Size: 1887 bp

RefSeq ORF: 1131 bp

Locus ID: 161582

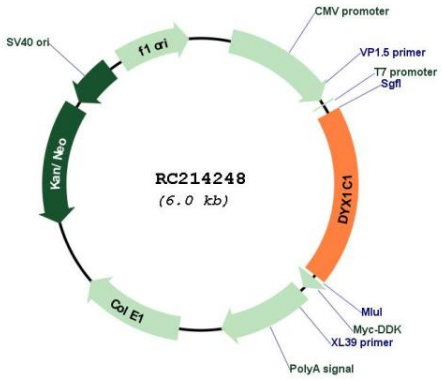
UniProt ID: Q8WXU2

Cytogenetics: 15q21.3

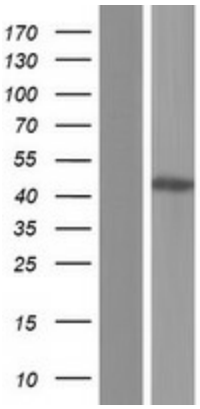
MW: 43.9 kDa

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 RC214248



Western blot validation of overexpression lysate (Cat# [LY422389]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214248 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).