

Product datasheet for **RG209029**

DNAAF4 (NM_001033560) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAAF4 (NM_001033560) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNAAF4
Synonyms:	CILD25; DYX1; DYX1C1; DYXC1; EKN1; RD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209029 representing NM_001033560 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTCTTCAGGTTAGCGATTACAGCTGGCAGCAGACGAAGACTGCGGTCTTTCTGTCTCTGCCCTCA
AAGGCGTGTGCGTCAGAGACACGGACGTGTTCTGCACGGAAAACATCTGAAGGTCAACTTTCCTCCATT
TTTATTTGAGGCATTTCTTTATGCTCCCATAGACGATGAGAGCAGCAAAGCAAAGATTGGGAATGACACC
ATTGTCTTCACCTTGATAAAAAAGAAGCGCCATGTGGGAGACCCTTTCTGTGACGGGTGTTGACAAAG
AGATGATGCAAAGAATTAGAGAAAAATCTATTTTACAAGCACAAGAGAGAGCAAAGAAGCTACAGAAGC
AAAAGCTGCAGCAAAGCGGGAAGATCAAAAATACGCACTAAGTGTGATGTAAGATTGAAGAAGAAGAG
AGGAAAAAATAGAAGATATGAAAGAAAATGAACGGATAAAAGCCACTAAAGCATTGGAAGCCTGGAAAG
AATATCAAAGAAAAGCTGAGGAGCAAAAAAATTCAGAGAGAAGAGAAATTATGTCAAAAAGAAAAGCA
AATTAAGAAGGAAGAAAAAATAAATAAAGAGTCTTACTAGAAATTTGGCATCTAGAAATCTTGCT
CCAAAAGGAGAAATTCAGAAAATATTTACTGAGAAGTTAAAGGAAGACAGTATTCCTGCTCCTCGCT
CTGTTGGCAGTATTAATCAACTTTACCCCTCGAGTATCCCAACAGCTCTTCGTGAATCACAAGTAGC
AGAAGAGGAGGAGTGGCTACACAACAAGCTGAGGCACGAAGAGCAATGAATACTGACATAGCTGAACCT
TGCGATTTAAAAGAAGAAGAAAAGAACCCAGAATGGTTGAAGGATAAAGGAAACAATTTGTTGCAACGG
AAAATATTTGGCAGCTATCAATGCATATAATTTAGCCATAAGACTAAATAATAAGATGCCACTATTGTA
TTTGAACCGGGCTGTTTGCCACCTAAAACCTAAAAAATACACAAGGCTATTGAAGATTCTTCTAAGGAA
TTCTGTTCTTTGAGGCATTGAATGTCAGGCCTCTGAGCCCAAGCTAAGCCATCATATCCCTAGTGACC
TGCACGTATACATCCAGATGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209029 representing NM_001033560
 Red=Cloning site Green=Tags(s)

MPLQVSDYSWQQTAVFLSLPLKGVCRD TDVFC TENYLKVNFPFLFEAFLYAPIDDESSKAKIGNDT
 IVFTLYKKEAAMWETLSVTGVDKEMMQRIREKSILQAQERAKEATEAKAAAKREDQKYALSYMMKIEEEE
 RKKIEDMKENERIKATKALEAWKEYQRKAEQKKIQREEKLCQKEKQIKEGRKKIKYKSLTRNLASRNLA
 PKGRNSENIFTEKLEKDSIPAPRSVGSIKINFTRPVFTALRESQVAEEEEWLHKQAEARRAMNTDIAEL
 CDLKEEEKNPEWLKDKGNKLFATENYLAAINAYNLAIRLNNKMPLLYLNRAVCHLKLKNLHKAIEDSSKE
 FCSLEGIECQASEPKLSHHIPSDLHVYIQMA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033560

ORF Size: 1143 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001033560.1](#), [NP_001028732.1](#)

RefSeq Size: 1807 bp

RefSeq ORF: 1146 bp

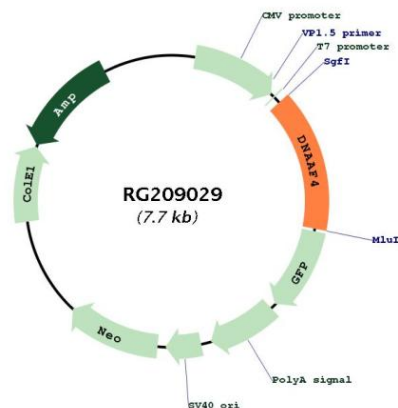
Locus ID: 161582

UniProt ID: [Q8WXU2](#)

Cytogenetics: 15q21.3

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 RG209029