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Product datasheet for RC218210

Alpha Fodrin (SPTAN1) (NM_003127) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alpha Fodrin (SPTAN1) (NM_003127) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alpha Fodrin
Synonyms:	DEE5; EIEE5; NEAS; SPTA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC218210 representing NM_003127
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC218210 representing NM_003127
Red=Cloning site Green=Tags(s)

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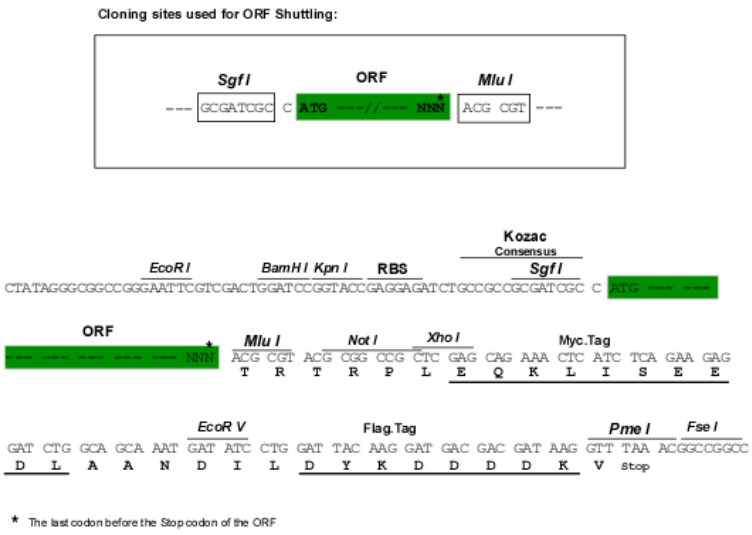
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003127

ORF Size: 7416 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_003127.3, NP_003118.2

RefSeq Size: 7892 bp

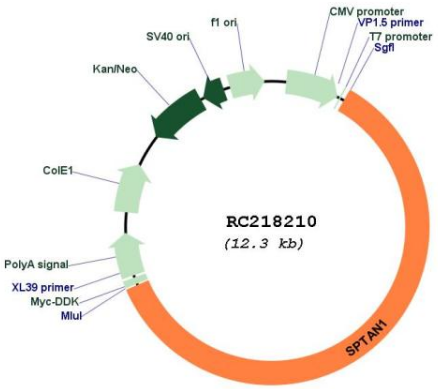
RefSeq ORF: 7419 bp

Locus ID: 6709

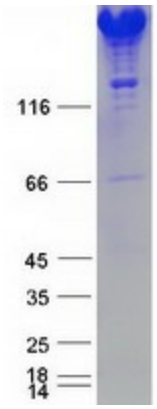
UniProt ID: Q13813

Cytogenetics:	9q34.11
Domains:	SH3, spectrin, EFh
Protein Families:	Druggable Genome
Protein Pathways:	Tight junction
MW:	285 kDa
Gene Summary:	Spectrins are a family of filamentous cytoskeletal proteins that function as essential scaffold proteins that stabilize the plasma membrane and organize intracellular organelles. Spectrins are composed of alpha and beta dimers that associate to form tetramers linked in a head-to-head arrangement. This gene encodes an alpha spectrin that is specifically expressed in nonerythrocytic cells. The encoded protein has been implicated in other cellular functions including DNA repair and cell cycle regulation. Mutations in this gene are the cause of early infantile epileptic encephalopathy-5. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2010]

Product images:



Circular map for RC218210



Coomassie blue staining of purified SPTAN1 protein (Cat# [TP318210]). The protein was produced from HEK293T cells transfected with SPTAN1 cDNA clone (Cat# RC218210) using MegaTran 2.0 (Cat# [TT210002]).