

Product datasheet for **MR229029**

D16Ert472e (NM_001252438) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: D16Ert472e (NM_001252438) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: D16Ert472e
Synonyms: 1700010I10Rik; 2310009O17Rik; E330003K22Rik; Eurl
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR229029 representing NM_001252438
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACGAAGAGGAGCAGTTTGAAGCATTGACTTGAATGATGACAACATTTGCAGTGTTTGTAACTGG
GAACAGACAAAGACACGCTCTCCTTCTGCCACATTTGCTTCGAGCTAAATCTCGAGGGAGTGCCAAAGTC
GAATCTTTTACACACCAAATCAGTGAGAGGCCATAAAGACTGCTTTGAAAAATACCATTTAATAGCAAAC
CAGGATTGTTCTCGTTCCAAGCTTCCAAAAGTACTTATGAAGGAGTTAAAACCATCGTGAGTAAGAAGA
TAAACTGGATTGTGCAGTATGCCAAAAATAAAATCTGGATTTGGAGTCCGAGTGTCCAAAACCTCCCA
GCATCCCCTGTTGAATTTCAAGCATAAGCCAGAGAAGAAATTGCTCCACAGTTTACTCTCAGGTGCCA
AAGTACTCGGCAAAAGGCTCAGCCGAAACGCAGGCAGCATCTCAAGCTATGCGCAGAGAATCCTGGAGC
ACAGAGAAAAACAGACTTCCGGCTGGGTTTATTGGAAGACGCGGATGCATTGTGGACTCACAGTCACAG
CCAGGCACAGAAAACAGAAGAGACAAGCTCTGGTCCGGAGGGGACTATCCAGACCCAGAATCCACATTAC
AGCCGTGAAGAATTGAATTCGATGACTCTTGTGAAGTAGTACAAGTACTGAGTGCGAAGCTCCAACAGCGAA
TCCAAGAGGTTTTGAAGAGTTAACACACCAGGTGCAAGAGAAGGACTCTCTGGCGTCAGAGCTCCATGT
CCGTACGTGGCTATCGAGCAACTCCTCAAGAAGTCTCAAGTTGCCATGCCTCAAGTGGGACGGACA
GGGACGAGGTCACACCTACCCATGAACCAC

ACGCGTACGCGGCCGCTCGAGCAGAAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229029 representing NM_001252438
Red=Cloning site Green=Tags(s)

MNEEEQFVSDLNDDNICSVCKLGTDKDTLSFCHICFELNLEGVPKSNLLHTKSVRGHKDCFEKYHLIAN
 QDCSRSKLSKSTYEGVKTIIVSKINWIVQYAQNKNLDLESECSKTSQHPLLNFRHKPEKLLPQFDSQVP
 KYSAKGSAGNAGSISSYAQRILEHRENTDFRLGLLEDADALWTHSHSQAQKTEETSSGPEGTIQTQNPY
 SREELNSMTLAEVVQLSAKLQQRIQEVFEELTHQVQEKDSLASELHVRHVAIEQLLNKNSKLPCLQVGR
 GTRSHLPMNH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001252438

ORF Size: 870 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_001252438.1](#), [NP_001239367.1](#)

RefSeq Size: 6160 bp

RefSeq ORF: 873 bp

Locus ID: 67102

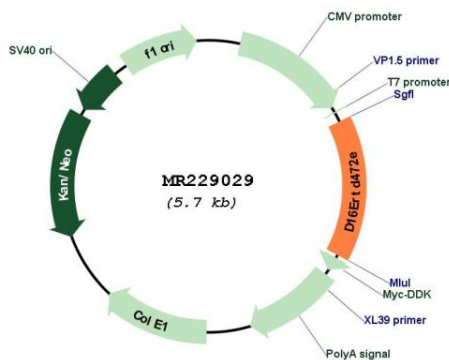
UniProt ID: [Q9D7G4](#)

Cytogenetics: 16 45.36 cM

MW: 33.3 kDa

Gene Summary: Plays a role in cortical progenitor cell proliferation and differentiation (PubMed:27404227). Promotes dendritic spine development of post-migratory cortical projection neurons by modulating the beta-catenin signaling pathway (PubMed:27404227).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229029