

Product datasheet for **MG226422**

Chd8 (NM_201637) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chd8 (NM_201637) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chd8
Synonyms:	5830451P18Rik; AU015341; Chd-8; Du; Duplin; HELSNF1; mKIAA1564
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226422 representing NM_201637, codon optimized . Due to the complexity of NM_201637, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGCATCGCC**

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Protein Sequence: >MG226422 representing NM_201637
 Red=Cloning site Green=Tags(s)

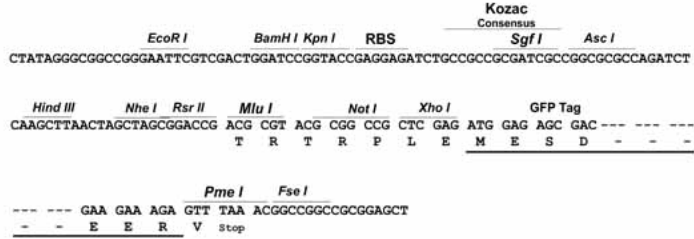
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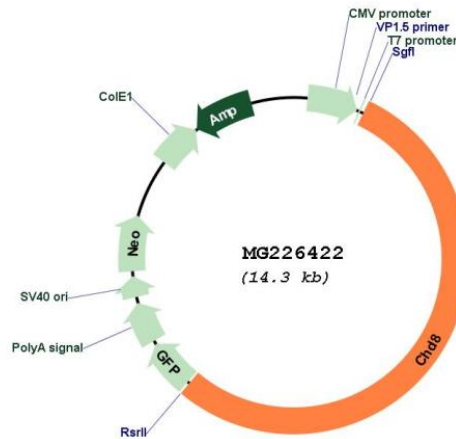
SGP TRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_201637

ORF Size: 7746 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_201637.2](#), [NP_963999.2](#)

RefSeq Size: 8190 bp

RefSeq ORF: 7749 bp

Locus ID: 67772

UniProt ID: [Q09XV5](#)

Cytogenetics: 14 C2

Gene Summary:

This gene encodes a member of the chromodomain-helicase-DNA binding protein family, which is characterized by a SNF2-like domain and two chromatin organization modifier domains. The encoded protein also contains brahma and kismet domains, which is common to the subfamily of chromodomain-helicase-DNA binding proteins to which this protein belongs. In mammals, this gene has been shown to function in several processes including transcriptional regulation, epigenetic remodeling, promotion of cell proliferation, and regulation of RNA synthesis. Knockout of this gene causes early embryonic lethality due to widespread apoptosis. Heterozygous loss of function mutations result in autism spectrum disorder-like behaviors that include increased anxiety, repetitive behavior, and altered social behavior. [provided by RefSeq, Dec 2016]