

Product datasheet for **MG217423**

Dars (NM_145507) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dars (NM_145507) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Dars
Synonyms: 5730439G15Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG217423 representing NM_145507
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCACGACCAACGCCAGCCGTAAGGGTCAGGAGAAGCCGCGGGAGATCGTGGACGCGCGGAAGATT
ATGCTAAAGAGAGATATGGGATATCTTCTATGATAACAATCACAAGAAAAGCCAGATAGAGTTTTGGTTTCG
AGTTAAGGACCTGACAGTTCAAAAAGCTGATGATGTTGTTGGGTCCGTGCAAGAGTTCATAACAAGCAGA
GCAAAAAGACTGGGAACCTACCGACCGTTTGTCTTTCTCTTTTTAACTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217423 representing NM_145507
Red=Cloning site Green=Tags(s)
MPSTNASRKGQEKPREIVDAAEDYAKERYGISSMIQSQEKPDRVLVRVKDLTVQKADDVVWRARVHTSR
AKDWEPTDRLFFLFFNY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_145507

ORF Size: 261 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:

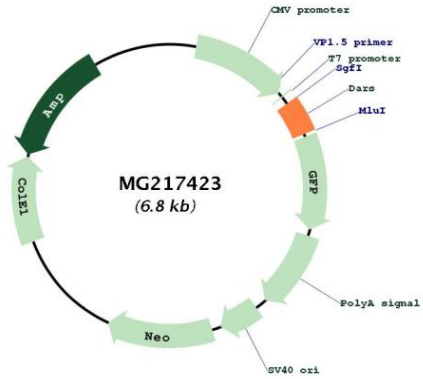
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_145507.2](#), [NP_663482.2](#)

RefSeq Size: 702 bp

RefSeq ORF: 264 bp
 Locus ID: 226414
 Cytogenetics: 1 E3
 Gene Summary: Catalyzes the specific attachment of an amino acid to its cognate tRNA in a 2 step reaction: the amino acid (AA) is first activated by ATP to form AA-AMP and then transferred to the acceptor end of the tRNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG217423