

Product datasheet for **MG215657**

Fastkd5 (NM_198176) Mouse Tagged ORF Clone

Product data:

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|---------------------------|-------------------------|
| Product Type: | Expression Plasmids |
| Tag: | TurboGFP |
| Symbol: | Fastkd5 |
| Synonyms: | C78212; mKIAA1792 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



ORF Nucleotide Sequence: >MG215657 representing NM_198176
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAGCCGCTCTCAAGCTATTAGAACCTTTAAAGTACAAAGCACCTTGTAATCCTGCTTACCGTGCAG
CCCAAAGCGTGGCCCATTTGGCACATGGGAAACATCACGCCACACGGGGGACAGACGCTCCCTGAATGTAA
TAGCTCCTGCCATCTTGGCAGAAAAGTGAAGAACGTTGGTGGTACCACCCTTCTCGGAGAACCCTCACA
GCCAGCAGTGGCCACCTGGGTTTGGAGTTCACAAAGCTTCTACCCTTAATGCCAGCACACTGCATCCAG
ACTCATCCAGTGTGGAGGAGTGAAGAGGATGTAGAGTCTTTGATTCTTGAAGGAACCCGAGTTTTT
CTTAAAGCTAAGGCCAGAGTACCAGCTTACAGCTATAACAGAAGTGACACTACCAACCCATAGCTGCT
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AACAAGAACCAATACTGCTATGGTCCAGGGCTCTACTTGGATTGCACAATATGAAGAGGAGGCAGCTAG
TTCAAATTGGGTACCGTGTGTTAGAATTACCCACTGGGAATGGCTTCCACTACTAAAAAGAACTCGCTT
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

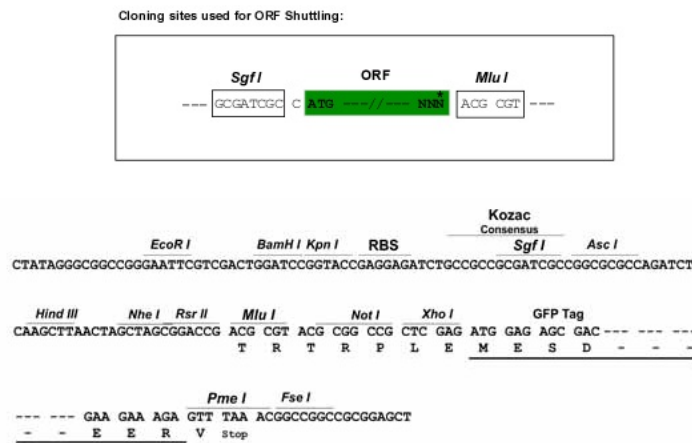
Protein Sequence: >MG215657 representing NM_198176
 Red=Cloning site Green=Tags(s)

MSAALKLEPLKYKPCNPAYRAAQSVAHWHMGNITPHGGQTLPECNSSCHLARKVKNVGGTTLPRRTFT
 ASSAHLGLEFNKASTLNASTLHPDSSSAGGGEEDVEVDFSFEGRVFLKLRPEYQLHSYNRSDTHQPIAA
 SEVELILHKVTFYQNKLQPEVITNYFYKLSSLPAEQNSVLLSSNSFALLCQLSVKNIQLFNTSDLISILK
 AFVDLRIPPSSMLDVYETRFCHQVWEMTLDQLLL VADLWRNLGRRVPRFFKIFFSYLNLHWRELSLSQL
 IHLIYIIGENRQVPQDLMQRLESILKYVDSVNLEEVGTICLGFFKSSSLSEFVMRKIGDLACANMQHL
 SSHTLVHILKMFRTTHVDHIHFMKQFGEIAPQRIPSLGVQGMHLTLACASLRILDERVMNAVAASLPPR
 VAHCRSKDVAKILWSFGTLNYPNTEEFYSSLINEIHRKMPEFNQYPEHLLTCLIGLAFSEYFPVEFIN
 VALSPGFVKLAQERSKFEKELFTLDGTVAIIECPDYKGNRLNSHLQQETSANLWNLASKDMRSKPEFLE
 TLYLLETMLGGPQYIKHHMILPHTRSSDLEVQLDANMKPMPFNSEATPTEDGAQLRFKQVGVSLTDDLMM
 QLLKKGAKRYFQGGQIELETGQPPMELRKKTTVPLVNSGCNGTDRLGDGMVGLCPLAHMQPPLVKLAIQFT
 NKNQYCYGSRALLGLHNMKRRQLVQIGYRVVELPHWEWLP LLKTRTRLEKLAYLHEKVFTSAL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



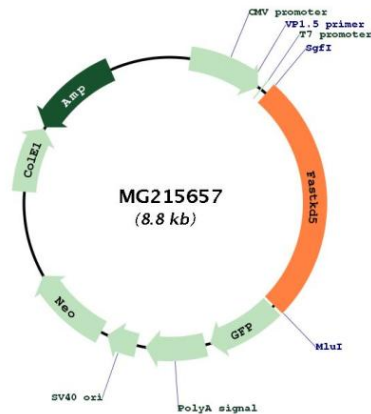
ACCN: NM_198176

ORF Size: 2286 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.

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_198176.3 |
| RefSeq Size: | 3164 bp |
| RefSeq ORF: | 2424 bp |
| Locus ID: | 380601 |
| UniProt ID: | Q7TMV3 |
| Cytogenetics: | 2 F1 |
| Gene Summary: | Plays an important role in the processing of non-canonical mitochondrial mRNA precursors. [UniProtKB/Swiss-Prot Function] |

Product images:

Circular map for MG215657