

Product datasheet for **MG215935**

Dstyk (NM_172516) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dstyk (NM_172516) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dstyk
Synonyms:	A930019K20Rik; C430014H23Rik; C820013G01; Ripk5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG215935 representing NM_172516
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGCCGACGGGCAGTCATGGGCCGGCGAGTCCGTGTCGGGCCCGGGTCCCGGAGGCCGGCGGAATGA
 TCCGCGAGCTGTCCGGGGCTTACGCCGTACCGCCGCTACCTGGGACGGCTGCGGCAGAACCTGCGAGA
 GACCCAGAAGTTCTTCCGCGACATCAAGTGCTCCACAGCCACAGTTGTCCCTCCTCCCCCGGGCGGC
 GGAGCGGCCGAGCTTGGCCCTGCCGGCGACGTCGCCAAGCCCCGCTGCCGGCGGGCCAGCTGAGCTGCA
 TTTCTTCCACCCATGGAAGAGACGTATCTGCAGCAGCTTGTGGACCGCTTCCCTGTATACTGATCCT
 CGGCCAGGACTGCAACGCCAAGTCCAGCTGCTGAACCTGCTGTTGGGGTGCAGGTGCTTCCACCCTC
 AAGCTGGACAGTGATGAGAGCTGAAGCTTCGTCGCCTCCGCTTACCTATGGGACTCGGACTCGGGTCA
 GCTTGGCGCTCCCCGGTCAAGTGAAGTGCACACGCTAGCTTACATCAGGACAACCTGGGAGACTAT
 CCCTGAGGAGGACTGGAGGTTCAAGAAGACAGTGAGGACGCTGCTCATGTGCTAGCTGACCTCGAGGTG
 ACAATGCATCATGCTCTCCTGCAGGAAGTGGACATTGTGGTGGCACCGTGCCTCGGACCCGGCCCTCAG
 TAGATGTTCTGAGTGACTTGGCAAATGACTTCTTGCTGTGATAACCTATGCACTTCACAAGGATGAACT
 CTCTGAGCGGGGTGAGCAAGAGCTTCGGGAAGTTAGACAGTATTTCTCCTTCCCCATGTTCTTTTTCAA
 GTACCCAGCTGGAGATAATCAGCTCTTCCAGTGGGAGAGCAGAGAGTGAAGGTACCAGTGTATGGAC
 AGCTGGTGGACCTGGGCTACCTGAGCAGCAGTACAGGAACTGTGTGCCCTTGACCAGGACTGTAAAGC
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 ACATTTAACACCATGAAAGAGGAACTTCTGGATGATGCTGCCAACATGGAGTTTAAAGATGTCATTGTCC
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 CTCCAGGCTCAATCAGGCCGTGGCCAACAAGCTGATCAGCTCAGTGGACTACCTGCGGGAAGCTTTGTT
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 ATCTCAAACAGATCTTAAATGCCGCTTACCATGTTGAGGTCACTTTTCACTCGGGATCCTCAGTTACTCG
 GATGCTTTGGAAACAAATCAAGCAGATCATCCAGCGTATCACATGGGTGAACCCACCACCATCACTCTA
 GAGTGAAGAGGAAGGTGGCCAGGAAGCCATCGACAGCCTCAGCGCCTCCAAGTTGGCCAGAGCATT
 GCAGCCAGTTCGCACCGGGCTCAATAGTTCTCATGAGGCGTTTGCAGCCTCCTTGAGGCAGCTGGAAGC
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 CTGGCCCGCTTTTCGCTAGAGAGCCGGTCTTACAGGATGCTTGTCTTACCCTAAACCTAAATTAGGAC
 AGGAACTAGGCCGGGCAATAATGGTGTGGTATACCTGTGTGACAACCTGGGGGGGACACTTCCCTTGTGC
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 GCAGAGGGACCCGTCCAGAGCGTCTTCTGTGTTGATGAGGAGTGTGGCAGTTGATGGAGCGTGTG
 GGATGGTGAACCCCTTGAAGAGGCCCTCTGGGCATCGTCAGCCTATGCTCCGAAGCATTATGGACCGG
 CTCTGCAAGTGCAGCTCTGAACAACCAACAGAGGACTAGACGATTCTACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215935 representing NM_172516
 Red=Cloning site Green=Tags(s)

MEADGQSWAGESVSGPGPGGGGMIRELCRGFSRYRRYLGRRLRQNLRETQKFFRDIKCSHSHSCPSSPAGG
 GAAELGPAGDVAEAPLPAGQLSCISFPPEETYLQQLVDRLPCILILGQDCNAKCQLLNLLLVQVLP
 KLDSDESKLRLRFTYGRTRVSLALPGQYELVHTLASHQDNWETIPEEDLEVQEDSEDAAHVLADLEV
 TMHHALLQEVDIVVAPCPSHRPSVDVLSLANDFLPVITYALHKDEL SERGEQELREVRQYFSFPMFFFK
 VPKLEIISSSSGRAESERSPLYGQLVDLGYLSSSHRNCVPSDQDCKAQSMLEQSEKLLKQLSTFSHQLLQ
 NRLVDAAKALNVVSHCLDIFINQAFDMQRDLQITPKRLEYTRKKENELYESLMNIANRQEQEEMKDMIVE
 TLNMTKEELLDDAANMEFKDVIIPENGETIGTREIKSCIRQIQELIISRLNQAVANKLISSVDYLRESFV
 GTLERCLQSLEKSDVSVHITSNYLKQILNAAHYHVEVTFHSGSSVTRMLWEQIKQIIQRITWVNPPTITL
 EWKRKVAQEAIIDSL SASKLAKSICSQFRTLNSSHEAFAASLRQLEAGHSGRLEKTEDLWLKVRKDHAPR
 LARLSLESRLQDVL LHRKPKLQELGRGQYGVVYLCDNWGGHFPCALKSVVPPDEKHWNDLALFHYMR
 SLPKHERLVDLHGVSVIDYNYGGSSVAVLLIMERLHRDLYTGLKAGLTLETRLQIALDVVEGIRFLHSQG
 LVHRDIKLNVL LDKQNRAKITDLGFCPEAMMSGIVGTPIHMAPELFTGKYDNSVDVYAFGILFWYIC
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 LCKCSSEQPNRGLDDST

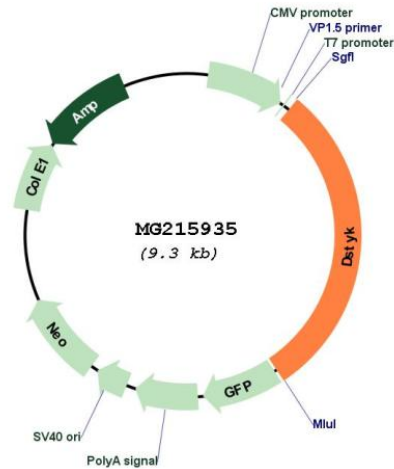
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_172516

ORF Size: 2781 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_172516.4](#), [NP_766104.2](#)

RefSeq Size: 6385 bp

RefSeq ORF: 2784 bp

Locus ID: 213452

UniProt ID: [Q6XUX1](#)

Cytogenetics: 1 E4

Gene Summary:

Acts as a positive regulator of ERK phosphorylation downstream of fibroblast growth factor-receptor activation. Involved in the regulation of both caspase-dependent apoptosis and caspase-independent cell death. In the skin, it plays a predominant role in suppressing caspase-dependent apoptosis in response to UV stress in a range of dermal cell types. [UniProtKB/Swiss-Prot Function]