

Product datasheet for **MG209053**

2700019D07Rik (BC089514) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	2700019D07Rik (BC089514) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	2700019D07Rik
Synonyms:	2700019D07Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG209053 representing BC089514
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTTTCTGCAACATATGTGGTGAAACTGTAACTCAGAACCAGATATGAAAGCTCACCTAATTGTTCC
 ACATGGAAAATGAAATTATCTGTCCATTTTGAAGTTGTGAGGTATAAATTACAACGAAAATATGTTTTCA
 TATCGAAGCTGTTCAATTTGAACAAAATGCACCAGAAAAAACTCTGAGAAGCTAGCTGCAGTGCAATAT
 GGACATTCAGACCGAAAGAACACCAACCTGCAGAGTACAGCGGAAGTTACTTCAGGCATTCATTCAGCTT
 GTGCATCTAGCTTTCCAAAAGAGTCATCTGAAAGCCTTCTAAAGATAGGACTGTAAAGCATGAAGCTTT
 TTATACAGAGAACAATACTGAATCTAGAAAAGTACAAAAGAGCAGAGAAAAGAAGCTGGATTGTCTGAG
 GCCCAAGGATCAATTTATGAAACAACATACAGTCTCCCGAATGTCCATTTTGTGAAAAAATTGAGGGGT
 GTAGTCAAGATATGAAAATTCATGTGAAAACAAGCATGCCAGTCTTTTAGAAAAGTCCATTAAGAACTG
 TCATCAACCCTCTATGACTGTCCCATGTGTGGGCTTGTCTGTACAAATTACCATATTCTCCAGGAACAT
 GTGGACTTGCATTTAGAAGAAAGCAGCTTTCAGCAAGGCATGGACAGAGTCCAGTGTTCAGTGATAGAG
 AATTAGCTCACCGGCTTCAGCAAGAAGAAGACAGAAAAGAGGAAATCTGAAGAATCAAGACAAGAAAGGGA
 AGAGTTTCAGAAGTTGCAGCGGCAATATGGTTTAGATAATTCTGGAGGATACAAACAACAGCAGCTACGA
 CATATGGAGCTAGAAGTAAATAGGGGAAGAATGCATCCATCTGAATTTTATAGCAGAAAAGCTGACATGT
 TGGAAATCAATAGCTATTGGTATTGATGATGAAAAACAACAACTCTGGAATTATTGAAGCCCTCCATAG
 GTATTATCAGAACTGCCACAGATGAAGGTGTGTGGCTTTCTACAGTGGTGGATCACTTTCACTCA
 TCTTTTGGGACAAAAGGTTGGGTTGCGGTTATAGAAAATCCAGATGCTACTTTTCACTATTATTGCAAA
 GTGATGTATATGGTGACTGCTTGAAGGTATGGCAGTTCCTTGTATTCCAAAAATTCAGCCATGATTGA
 AGATGCATGGAATGAAGGTTTTGATCCTCAGGGAGCCTCTCAACTTAATAACAAAATTACAGGGAACAAAG
 GCCTGGATTGGAGCGTGTGAGATTTATACACTTCTGACCTCACTGAGAGTAAAGTGCCGCATTATTGATT
 TTCACAAGTCACTGGTCTTTGGGTACACACCCTCGCTTATTTGAATGGATATTGAACTATTATTCTTC
 AGAGACGGAAGGAACTCCAAAGATCGTGTGTACATCTAAACCTCTATCTATCTCCAGCATCAGGGTCAC
 AGTCGAACAGTTGTTGGAATTGAAGAGAAAAAAACCGAACATTATGCTTGTAGTATTTGATCCTGGAT
 GTCCTTCTCGAGAAATGCAGAACTGTTAAAGCAAGATATGGAGGCTAGTAGTCTTAGACAACTTCGGAA
 ATCTGTGGGAAATCTAAACATAAGCAGTACCAGATAGTAGCAGTAGAGGGTGTCTTTCCCGAGAGGAA
 AAAGTTGCCAGGAAACAAGCTTCGCAAGTGTACAGCGGAGAAGATTCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209053 representing BC089514
 Red=Cloning site Green=Tags(s)

MLSCNICGETVNSEPDKAHLIVHMENEICPFCKLSGINYNEICFHIEAVHFEQNAPEKNSEKLAHVQY
 GHSDRKNLQSTAEVTSIGIHSACASSFPKESSESLPKDRTVKHEAFYTENITESRKYQKSREKKPGLSE
 AQGSIYETTYSPPECPFCGKIEGCSQDMEIHVKTKHASLLESPLKDCHQPLYDCPMCGLVCTNYHILQEH
 VDLHLEESSFQQGMDRVQCSSDRELAHRLQQEEDRKRKSESRQEREFFQKLQRQYGLDNSGGYKQQQLR
 HMELEVNRRMHPSEFHSRKADMLESIAGIDDGKTKTSGIIEALHRYQNTATDVRCVWLSTVVDHFHS
 SFGDKGWGCGYRNFQMLLSLLQSDVYGDCLKGMVPCIPKIQSMIEDAWNEGFDPOGASQLNNKLQGTK
 AWIGACEIYTLTSLRVKCRIIDFHKSTGPLGTHPRLFEWILNYSSETEGTPKIVCTSKPPIYLQHQGH
 SRTVVGIEEKKRNTLCLLVDFPGCPSREMQLLKQDMEASSLRQLRKS VGNLKHKQYQIVAVEGVLSPPE
 KVARQASQVFTAEEKIP

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<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.
RefSeq:	BC089514.1
RefSeq Size:	2176 bp
RefSeq ORF:	1733 bp
Locus ID:	72580
Cytogenetics:	10 B1
Gene Summary:	Deubiquitinase with endodeubiquitinase activity that specifically interacts with and cleaves 'Lys-63'-linked long polyubiquitin chains. Shows only weak activity against 'Lys-11' and 'Lys-48'-linked chains. Plays an important role in genome stability pathways, functioning to prevent spontaneous DNA damage and also promote cellular survival in response to exogenous DNA damage. Modulates the ubiquitination status of replication protein A (RPA) complex proteins in response to replication stress.[UniProtKB/Swiss-Prot Function]