

Product datasheet for **MG218150**

D130043K22Rik (NM_001081051) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	D130043K22Rik (NM_001081051) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	D130043K22Rik
Synonyms:	4930451E12Rik; Kiaa0319
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218150 representing NM_001081051 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTCCCCACCAGGAGTACTGTCTTCATTGCTGCTGCTGGCAGCCATGGCAGGAGGCAGTTCTCAGC
AGTGCTCTGAGGGCAGGACTTACTCCGATGCCATCATTTACCTAACCCGGAAACCATCAGAATCATGCG
GGTGTCTCAAACCTTCTCCGTGGGAGACTGCACGGCCGCTTGCTGTGACTTGCTCACCTGTGACCTGGCC
TGTTGGTTTGGAGGAGCTGCTATCTGGTAAATGCATGCGCTCGGAGAATTGCGAGCCAGGACCACAG
GCCCATCCGGTCTTACCTCACTTTCGTGCGCAGACCTGTCCAGAGGCCCGGGCAGCTGCTGGACTATGG
AGACATGATGCTGAGCAGGGGCTCCCCCTCAGGAGCTTGGGGAGACTCCCTTGAGGACCTCAGGAAGGAC
TTGCCCTTTCTTGCAAAGACGGGGACCAAGAGGAGACCACTGAGTACTCAGATGAATACAAAGACCTGG
AGCGGGGCTCCTGCAGCCCTCCAACGACGAAGACCTAGAGGTAGCGCAGAGTACCCCGACTGGAGCCT
GCTGCCAGCAACGAGGGAGGTTTCAATGCTACAGCTACAGGAGACAACCTCAGCTGCTTCCATGGAGAAG
CTGCAGGATCCCACGCCCAACCACTGGACCAGGAGCAGCTGCAGGCCCTGAATGAGTCAACTTGGTCCC
CTACACCCGGGCACTCTCAATAAGCAGTGTGTGGCCTTCTCTGCGAGCCATTACCTACAGAGGAGGG
ACTGGAAGGAGAAGAGACTTTACAGCTCCAAGAACAACCGAGCAATAGCTCTGAAAAAGAGTTCCAATG
CCTTCCATAATCCTTCCCCTGCCAGCTGGAGTCTAGCCAGCCACGACGGAAAAAATCCAACCTTTA
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CCCTCCTCCGTGGCCCTTGTACCTACTGCTTCCAGGACAGTAAAGGCGCTTGCTGTGTCTGCTGGAGAT
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TAGCTGTTGTTTCTCCCAGACACAAGAGCTCAGTGTGCCTTTGACCTCAGCCCTGATCGATGGCAGCCA
AAGTACAGATGATACTGAAATAGTGAGTTACCACTGGGAAGAAGTCGACGGGCCCTTCTAGGAGAGGAG



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TTTCCAGCTGACACCCCAATCTTACGATTGTGCAACCTAGTTCCTGGTAACTACACCTTTAGGTTGACCA
 TCACAGACTCGGATGGCGCTACCAACTCCACCCTGCATCCCTCGTCATCCGTGATGCCGTGGACTACCC
 ACCCGTTGCCAATGCAGGGCCAAATCAGACCATCACTTTGCCCAAAACACCATCATTCTGAATGGGAAC
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 GAGCACGGAGACAACTCCAGTCTGATGGTGTGCGAGTCTGAGTTTTGAAAGCGACACAGGACACGCTATTC
 AGCCGAGAGAGGATGGAGAGAGGAGTCTGAAGGGTCCCTGAATGGCTGTGCCAGAAATGGAGTTTCT
 TCGGTTACTACTCAAAGGACAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG218150 representing NM_001081051
 Red=Cloning site Green=Tags(s)

MVSPGGVLSLLLLAAMAGSSQCCSEGRYSDAIIISPNPETIRIMRVSQTFVSGDCTAACDLLTCDLA
 WWFEGSCYLKCMRSENCEPRTTGPIRSYLTFRVRRPVQRPGQLLDYGMMLSRGSPSGAWGDSLEDLRKD
 LPFLGKDGPEETTEYSDEYKDLERGLLQPSNQDPRGSAEYPDWSLLPSNEGGFNATATGDNSAASMEK
 LQDPTPHPLDQEQALNESTWSPTPGHSSISSVWPSSASPLPTEEGLEGEETLQEQPSNSSGKEVPM
 PSHNPPASLESSPATTEKNSNFVTPRSRKHSTPTFPTSTVL TGLTPPWPLSPTASRTVKALAVSAGD
 NLVLTLPDREAELKASVEPAPPADTTYSYEWLSMHPVDFQGIKQENKPTLHLSQLSVGLYAFRVAVSS
 ENAFGEGYVNVTVMPAARVNQPPVAVVSPQTQELSVPLTSALIDGSQSTDDTEIVSYHWEVDGPFLLGEE
 FPADTPIILRLSNLVPGNYTFRLLITDSDGATNSTTASLVIRDAVDYPPVANAGPNQITILPQNTIILNGN
 QSSDDHQIVLYEWFAGPGGESKEMVMQGAQTPYLHLSELQEGEYTFQLMVTDSGGQSTALVAVTQVAEN
 NQAPVAVAGPDKELVFPVQSATLDGSRSSDDHGI VCYHWEHIRGPSAVEMENVDKAIAATVTLQVGIYHF
 RLTVRDQQLSSTSTLTVAVKKENNSPPRAQAGGRHVLILPNNSITLDGSRSTDDRGIVSYLWIRDGQSP
 AAGDVIGGSDHRAALQLTNLVEGVYTFHLLVTDSQGASDSDAATVEVLPDPKKGDLVELILQVGVQEQLTE
 QQKETLVRQLAVLLNVLDSVDKVLKIQAHTDVSTVIVFYVQSGSPFKVLRAAAVARNLHKRLSKEKEAFL
 LFKVLRVDTAGCLLKCSGHGCDPITKRCICSQLWMENLIQRYMWDGESNCEWSVFVVAALALTLTLLTG
 AVSWLCICCCRRRKRTRKIRKKTKYITLDSMDEQERMELRPKYGIKHRSTEHNSSLMVSESEFESDQDTLF
 SRERMERGVKLGSLNGCARNGVSFYGYYSKDR

TRTRPLE – GFP Tag – V

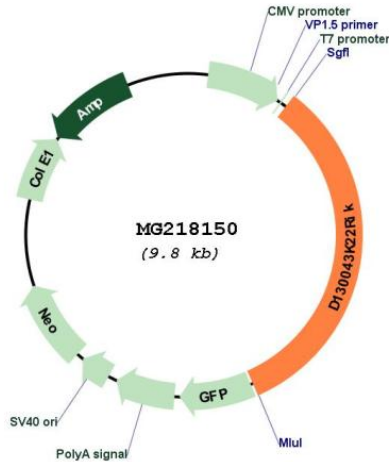
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001081051

ORF Size: 3243 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:	<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:	<u>NM_001081051.1</u> , <u>NP_001074520.1</u>
RefSeq Size:	4977 bp
RefSeq ORF:	3246 bp
Locus ID:	210108
UniProt ID:	<u>Q5SZV5</u>
Cytogenetics:	13 A3.1
Gene Summary:	This gene encodes a transmembrane protein that contains a large extracellular domain with multiple polycystic kidney disease (PKD) domains. The encoded protein may play a role in the development of the cerebral cortex by regulating neuronal migration and cell adhesion. Single nucleotide polymorphisms in a similar gene in human are associated with dyslexia. Alternatively spliced transcript variants have been identified. [provided by RefSeq, May 2015]