

## Product datasheet for **MC223491**

### **D130043K22Rik (NM\_001081051) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** D130043K22Rik (NM\_001081051) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** D130043K22Rik  
**Synonyms:** 4930451E12Rik; Kiaa0319  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223491 representing NM\_001081051  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGTGTCCACCAGGAGTACTGTCTTCATTGCTGCTGCTGGCAGCCATGGCAGGAGGCAGTTCTCAGC  
AGTGCTCTGAGGGCAGGACTTACTCCGATGCCATCATTTACCTAACCCGAAACCATCAGAATCATGCG  
GGTGTCTCAAACCTTCTCCGTGGGAGACTGCACGGCCGCTTGCTGTGACTTGCTCACCTGTGACCTGGCC  
TGGTGGTTTGAGGGCAGCTGCTATCTGGTGAATGCATGCGCTCGGAGAATTGCGAGCCAGGACCACAG  
GCCCATCCGGTCTTACCTCACTTTCGTGCGCAGACCTGTCCAGAGGCCCGGGCAGCTGTGGACTATGG  
AGACATGATGCTGAGCAGGGGCTCCCCCTCAGGAGCTTGGGGAGACTCCCTTGAGGACCTCAGGAAGGAC  
TTGCCCTTTCTTGCAAAGACGGGGACCAAGAGGAGACCACTGAGTACTCAGATGAATACAAAGACCTGG  
AGCGGGGCTCCTGCAGCCCTCAACAGCAAGACCCCTAGAGGTAGCGCAGAGTACCCCGACTGGAGCCT  
GCTGCCAGCAACGAGGGAGGTTTCAATGCTACAGCTACAGGAGACAACCTCAGCTGCTTCCATGGAGAAG  
CTGCAGGATCCCACGCCCAACCACTGGACCAGGAGCAGCTGCAGGCCCTGAATGAGTGCAGCTTGGTCCC  
CTACACCCGGGCACTTCAATAAGCAGTGTGTGGCCTTCTCTGCGAGCCCACTTACCTACAGAGGAGGG  
ACTGGAAGGAGAAGAGACTTTACAGCTCCAAGAACAACCGAGCAATAGCTCTGGAAGAGGTTCCAATG  
CCTTCCATAATCCTTCCCTGCCAGCCTGGAGTCTAGCCAGCCACGACGGAAAAAACTCCAACCTTTA  
CAGTCACGCCACGGAGCAGAAAAACAGCACCCCAACTTTTCTACCAGTACAGTCTCACTGGGCTAAC  
CCCTCCTCCGTGGCCCTTGTACCTACTGCTTCCAGGACAGTAAAGGCGCTTGCTGTGCTGCTGGAGAT  
AACCTAGTACTAACCCTTACCGACAGAGAAGCAGAAGTGAAGGCCTCTGTTGAACCAGCGCCCTGCAG  
ATACAACCTACTCCTATGAATGGAGTTAATGAGCCACCCAGTAGACTTCCAAGGTAATAACAACAAGA  
AAACAAGCCGACTTTCACCTCTCTCAATTATCTGTGGGACTCTATGCCTTCAGAGTGGCTGTTTCTAGT  
GAGAATGCATTTGGAGAAGGCTATGTCAATGTCACGGTTATGCCAGCTGCAAGAGTCAACCAGCCACCTG  
TAGCTGTTGTTTCTCCCAGACACAAGAGCTCAGTGTGCCTTTGACCTCAGCCCTGATCGATGGCAGCCA  
AAGTACAGATGATACTGAAATAGTGAGTTACCACTGGGAAGAAGTCGACGGGCCCTTCTAGGAGAGGAG  
TTTCCAGCTGACACCCCAATCTTACGATTGTGCAACCTAGTTCTGGTAACTACACCTTTAGGTTGACCA



[View online »](#)

TCACAGACTCGGATGGCGCTACCAACTCCACCCTGCATCCCTCGTCATCCGTGATGCCGTGGACTACCC  
 ACCCGTTGCCAATGCAGGGCCAAATCAGACCATCACTTTGCCCAAACACCATCATTCTGAATGGGAAC  
 CAGAGCAGTGATGATCACCAGATTGTTCTCTATGAGTGGTTTCGACGGCCCTGGCGGTGAGAGCAAAGAGA  
 TGGTCATGCAGGGAGCGCAGACCCCATACCTTCACTTGTCTGAGCTGCAGGAAGGAGTACACATTTCA  
 GCTGATGGTGACGGATTCTCGGGACAGCAATCCACCGCTTTGGTCGCTGACTGTCCAGGCTGAGAAC  
 AACCCAGGCTCCGGTGGCGTGGCAGGCCCGACAAGGAGCTGGTTTTCCCGGTGCAGAGTGCTACACTGG  
 ATGGGAGCCGGAGCAGTACGATCACGGCATTGTCTGCTATCACTGGGAGCACATCAGAGGCCCCAGTGC  
 AGTGGAGATGGAGAATGTGGACAAGCCATAGCCACTGTACCGGCTTCAGGTGGGTATCTACCACTTC  
 CGGTTAACCGTGAGAGACCAGCAGGGTCTGAGCAGCACGTCCACCTCACTGTGGCTGTGAAGAAGGAAA  
 ATAACAGCCCTCCAGAGCCAGGCTGGTGGCAGACATGTTCTTATACTTCCCAATAATTCCATTACTTT  
 GGATGGTTCAAGGTCTACTGATGACCGAGGAATTGTGCTCTATCTGTGGATCCGGGATGGCCAGAGTCCA  
 GCTGCCGAGATGTCATTGGAGGCTCTGACCACAGGGCAGCTCTGCAGCTACCAATCTGGTGAAGGCG  
 TCTACACTTTTCACTTGTAGTCACTGACAGTCAAGGGGCTCGACTCAGACCGGCCACTGTGGAGGT  
 GCTGCCAGACCCCAAGAAGGATGGCTGGTGGAGTTGATCCTGCAGGTTGGTGTGAGCAGCTGACAGAG  
 CAGCAGAAGGAGACTCTAGTGAGGCAGCTGGCTGTGCTCCTGAACGTGCTAGACTCAGACGTGAAGGTGT  
 TGAAGATCCAGGCTCACACGGATGTGAGCACTGTGATTGTATTTATGTACAGAGTGGATCACCTTTCAA  
 GTTTCTCAGAGCTGCTGCTGTGGCCCGAATCTGCACAAGCGGCTTTCCAAGGAGAAGGAGGCTTTCTCTG  
 CTTTTCAAGGTCTTGAGGGTAGACACAGCAGGGTGCCTTCTCAAGTGTTCAAGCCACGGTCACTGTGACC  
 CCATCACGAAGCGCTGCATCTGCTCCCAGCTGTGGATGGAGAACCCTATACAGCGGTACATGTGGGATGG  
 AGAGAGCAACTGTGAGTGGAGTGTATTCTATGTGGCAGCTCTGGCATTGACACTAACACTGCTAACTGGA  
 GCTGTGCTTGGCTGTGCATCTGCTGCTGCAGGAGACGGAAAAGGACTAAGATCCGGAAGAAAACCAAGT  
 ATACCATCCTAGACAGCATGGACGAACAGGAAAGAATGGAAGTGGGCCCCAAGTACGGTATCAAGCACAG  
 GAGCACGGAGCACAACTCCAGTCTGATGGTGTGCGAGTCTGAGTTTGAAGCGACCAGGACACGCTATTC  
 AGCCGAGAGAGGATGGAGAGAGGAGTCTGAAGGGTTCCTGAATGGCTGTGCCAGAAATGGAGTTTCT  
 TCGTTACTACTCAAAGGACAGATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001081051
- Insert Size:** 3246 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_001081051.2](#), [NP\\_001074520.1](#)

RefSeq Size: 5146 bp

RefSeq ORF: 3246 bp

Locus ID: 210108

UniProt ID: [Q5SZV5](#)

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]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the protein.  
Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.