

## Product datasheet for **MG225673**

### Vcan (NM\_172955) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vcan (NM_172955) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Vcan
Synonyms:	5430420N07Rik; 9430051N09; Cspg2; DPEAAE; hdf; NG2; PG-M; PG-M(V0); PG-M(V1)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225673 representing NM_172955 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGATAAATATGAAAGGCATCTTATGGATGTGCTCAACCTTATTACTAACCCTGCACTACATCAAG  
CCAAAAAGGAAACCAGCCACCTGTTAAAGGCTCTCTGTCTGGAAAAGTGGTCTACCTTGTCATTTTTTC  
AACCTTACCTACCTTACCACCAATTACAACACGAGTGAATTTCTCAGAATCAAATGGTCTAAGATGGAA  
GTGGACAAAAATGAAAAGATATAAAGGAGACGACTGTCTTGGTGGCCAGAACGGAAATATCAAGATTG  
GTCAGGACTACAAGGGGCGAGTGTCCGTGCTACACATCCCGATGATGTAGGTGATGCTTCCCTCACCAT  
GGTCAAACCTCCGGCTAGTGATGCAGGCGTCTACCGATGTGATGTATGGGATTGAAGACACTCAG  
GACACCATGTCACTGGCTGTGGATGGTGTGTGTTTCACTACAGGGCAGCCACCAGCAGGTACACTCTGA  
ACTTTGCCGCTGCTCAACAGGCTTGTGGATATCGGGGCGGTCTAGCAAGCCAGAGCAGCTGTTTGC  
CGCCTATGAGGATGGATTTGAGCAGTGTGATGCAGGATGGCTGTCTGATCAAACCTGTCAGATATCCATA  
CGGGCTCCCCGAGAGGGCTGTTACGGAGACATGATGGGAAGGAAGGGTTCGGACCTATGGATCCGCT  
CTCCCCAGGAAACCTATGATGTGATTGTTATGTGGATCATCTGGATGGCGATGTGTTCCACATCACTGC  
TCCCAGTAAGTTCACCTTCGAGGAGGCCGAAGCAGAGTGTACAAGCAGGGATGCCAGGCTGGCGACTGTT  
GGAGAACTTCAGGCAGCTTGGAGAAATGGCTTTGACCAATGCGATTACGGCTGGCTGCGGATGCCAGCG  
TGCGGCACCCCTGTGACTGTGGCCAGGGCCAGTGTGGAGGAGGTCTACTTGGGGTGAGAACCCTGTATCG  
TTTTGAGAACCAGACATGCTTCCCTCTCCCTGATAGCAGATTTGATGCCTACTGCTTTAAACGTAAGTGT  
TTGATATCTCTTTAAAAATACAGATTA AAAAGCTGCAGCAAATATATACCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG225673 representing NM\_172955  
 Red=Cloning site Green=Tags(s)

MLINMKGILWMCSTLLLTHALHQAKMETSPPVKGSLSGKVVLPCHFSTLPTLPPNYNTSEFLRIKWSKME  
 VDKNGKDIKETTTLVAQNGNIKIGQDYKGRVSVPTHPDDVGDASLTMVKLRASDAGVYRCDVMYGIEDTQ  
 DTMSLAVDGVVFHYRAATSRYYTLNFAAAQACLIDIGAVIASPEQLFAAYEDGFEQCDAGWLSDTQTVRYPI  
 RAPREGCYGDMMGKEGVRTYGFRRSPQETVDVYCVVDHLDDGDFVHIITAPSKFTFEEAEAECTSRDARLATV  
 GELQAAWRNGFDQCDYGWLSDASVRHPVTVARAQCGGGLLGVRTLYRFENQTCFPLPDSRFDAYCFKRKC  
 LISLLKIQIKKLQQIYTH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_172955

**ORF Size:** 1104 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\\_172955.1](#), [NP\\_766543.1](#)

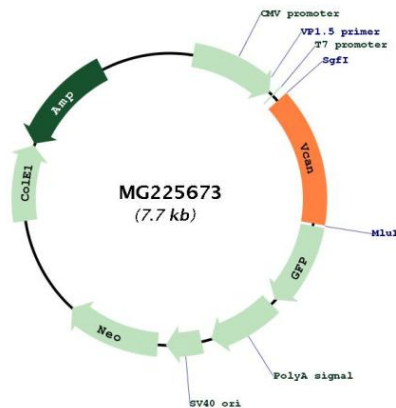
**RefSeq Size:** 3745 bp

**RefSeq ORF:** 1107 bp

**Locus ID:** 13003

**Cytogenetics:** 13 45.5 cM

**Product images:**



Circular map for MG225673