

## Product datasheet for **RG207993**

### Lebercilin (LCA5) (NM\_181714) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lebercilin (LCA5) (NM_181714) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lebercilin
Synonyms:	C6orf152
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RG207993 representing NM\_181714  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGAAAGAGCAGGAAGTCCAGGTACTGATCAAGAAAGAGAGGCAGGCAAACACCATTATTCTTACT  
 CATCTGATTTTGAACGCCACAGTCTTCTGGCCGATCATCGTGGTCAGTTCTTACCTGCAAGTGTAG  
 GAGAAAAATCCTAAAAGACAACTTCAGATGGCCAAGTACATCACCAAGCCCCTCGAAAACCAAGCCCT  
 AAGGGTCTACCAAACAGAAAGGGAGTCCGAGTGGGATTTTCGCTCCAGAGCCTCAATAGAGAGCCACTTC  
 GGAAAGATACTGATCTTGTACAAAACGGATTCTGTCTGCAAGACTGCTAAAAATCAATGAGTTGCAGAA  
 TGAAGTATCTGAACTCCAGGTCAAGTTAGCTGAGCTGCTAAAAGAAAATAAATCTTTGAAAAGGCTTCAG  
 TACAGACAGGAGAAAGCCCTGAATAAGTTTGAAGATGCCGAAAATGAAATCTCACAACTTATATTTTCGTC  
 ATAACAATGAGATTACAGCACTCAAAGAACGCTTAAGAAAATCTCAAGAGAAAGAACGGGCAACTGAGAA  
 AAGGGTAAAAGATACAGAAAGTGAAGTATTTAGGACAAAATTTTCCTTACAGAACTGAAAGAGATCTCT  
 GAAGCTAGACACCTACCTGAACGAGATGATTTGGCAAAGAACTAGTTTTCAGCAGAGTTAAAGTTAGATG  
 ACACCGAGAGAAGAAATTAAGGAGCTATCGAAAAACCTTGAAGTACTAACAGTTTCCACGACAGTT  
 GCTTGCTGAAAGGAAAAGGGCATATGAGGCTCATGATGAAAAATAAAGTTCTTCAAAGGAGGTACAGCGA  
 CTATATCACAAATTAAGGAAAAGGAGAGAGAAGTGGATATAAAAAATATATTTCTAATCGTCTGCCAA  
 AGTCCCTCCTCAAATAAAGAGAAAAGAACTTGCAATTAAGAAAAATGCTGCATGCCAGAGTGAATTTGCAGA  
 CCTGTGTACAAAAGGAGTACAAACCATGGAAGACTTCAAGCCAGAAGAAATATCCTTTAACTCCAGAAACA  
 ATTATGTGTTACGAAAACAAATGGGAAGAACCAGGACATCTTACTTTGGACTTGCAATCTCAAAGCAAG  
 ACAGGCATGGAGAAGCAGGGATTCTAAACCCAATTATGGAAAGAGAAGAAAAATTTGTTACAGATGAAGA  
 ACTCCATGTCGTAACAGGAGGTTGAAAAGCTGGAGGATGAATGGGAAAGAGAAGAACTTGATAAAAAAG  
 CAAAAAGAAAAGGCATCTTTACTGGAAAGAGAAGAAAAGCCAGAGTGGGAACTGGAAGGTACCAACTAG  
 GAATGTATCCAATTCAGAATATGGATAAATGCAAGGAGAGGAAGAAGAAAGACTGAAGAGAGAAATGCT  
 ACTTGCTAAACTGAATGAAATTGACAGAGAAGTCCAAGATTCTCGAAATCTAAAAACCTGTTTTGCCA  
 TTGTTACCTGATTTTGAATCAAACACTACACTCCCGAGAGAGAAGCCCAAAACATACAGGTTCTCTGAAT  
 CCTCAGAGAGATTATTTAATGGGCATCTTTGCAAGACATCAGTTTCTCAACTCCAAAAGGAGAAGGTCA  
 GAATTCAGGAAATGTTAGAAGTCCAGCCTCCCCTAATGAGTTCGCATTTGGTAGCTACGTGCCTTCGTTT  
 GCAAAAACATCAGAGAGGTCAAATCCATTTAGTCAAAAAAGTAGTTTTTTGGATTTCAAAGAAACAGTA  
 TGGAAAAACTTAGTAAAGATGGTGTAGATTTAATTACAAGAAAAGAGAAAAAGCTAATTTGATGGAACA  
 GTTATTTGGTGCCAGTGGTAGCAGCACCATTTCTCCTCAAAGCAGTGGCCCAAAATCTGTGGCTTCCAGT  
 AAAGGAGACATTGACCCTCTAAATTTTCTCCCTGGGAATAAAGGCAGCAGAGATCAAGAACATGATGAAG  
 ATGAAGGCTTTTTCTCAGTGAAGGAAGAAGTTTTAATCCAAATAGGCACCGATTAACATGCAGACGA  
 TAAACCAGCAGTAAAAGCAGCTGATTCTGTAGAAGATGAAATTGAAGAAGTAGCACTGAGA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG207993 representing NM\_181714  
 Red=Cloning site Green=Tags(s)

```
MGERAGSPGTDQEREAGKHHYSYSSDFETPQSSGRSSLVSSSPASVRRKNPKRQTS DGQVHHQAPRKPS
KGLPNRKGVRVGFERSQSLNREPLRKDLDLVTKRILSARLLKINELQNEVSELQVKLAELLKENKSLKRLQ
YRQEKALNKFEDAENEISQLIFRHNNEITALKERLRKSQEKERATEKRVKDESELFRTKFSLQKLKEIS
EARHLPERDDLAKKLVSAELKLDDETRRIKELSKNLELSTNSFQRQLLAERKRAYEAHDENKVLQKEVQR
LYHKLKEKERELDIKNIYSNRLPKSSPNKEKELALRKNAACQSDFDLCTKGVQTMEDFKPEEYPLTPET
IMCYENKWEPEGHLTDLQSQKQDRHGEAGILNPIMEREKVFVTDEELHVVKQEVEKLEDEWEREELDKK
QKEKASLLEREKPEWETGRYQLGMYPIQNMDKLQGEERLREMLLAKLNEIDRELQDSRNLKYPVLP
LLPDFESKLHSRERSPKTYRFSESSERLFGHHLQDISFSTPKGEGQNSGNVRSASPNEFAFGSYVPSF
AKTSERSNPFSSQKSSFLDFQRNSMEKLSKDGVDLITRKEKKANLMEQLFGASGSSTISSKSSGPNVASS
KGDIDPLNFLPGNKGRDQEHDEDEGFLLSEGRSFPNRRHRLKHADKPAVKAADSVEDIEEVALR
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_181714

**ORF Size:** 2091 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\\_181714.1](#), [NP\\_859065.1](#)

**RefSeq Size:** 4733 bp

**RefSeq ORF:** 2094 bp

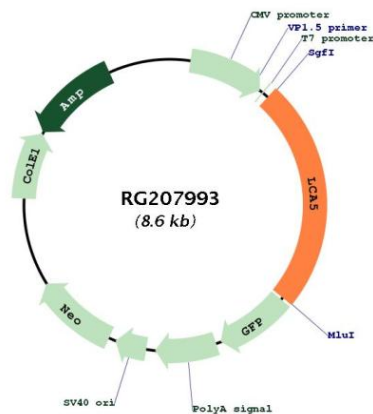
**Locus ID:** 167691

**UniProt ID:** [Q86VQ0](#)

**Cytogenetics:** 6q14.1

**Gene Summary:** This gene encodes a protein that is thought to be involved in centrosomal or ciliary functions. Mutations in this gene cause Leber congenital amaurosis type V. Alternatively spliced transcript variants are described. [provided by RefSeq, Oct 2009]

## Product images:



Circular map for RG207993