

Product datasheet for **MG209694**

Ecd (NM_027475) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ecd (NM_027475) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ecd
Synonyms:	5730461K03Rik; Hsgt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209694 representing NM_027475
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGGCAGTGAAAGCTCGCAATGGTAGAGGATGCTGTGGAGTACCATCTTCTCCTGATACCAGATA
 AAGCCAGAGGCACAGAAGAGCACAGAGATTCTTCAGAAGTACATTGAACGGATAATGACCCAGTTCGC
 ACCCATACTGGTCCCTTATATCTGGCAGAATCAGCCTTCAATCTCAAATACAAGCTGCAAAAGGAGGT
 GTTCTGCTCATATGTACGGCATGACAAAGTTGGAGATAACATTGAGGATGAATGGTTTATTGTTTATG
 TAATAAAGCAGATTACAAAGGAATTTCCAGAGTTAGTGGCCAGGTTGAAGACAATGATGGTGAGTTCCT
 GTTAATAGAAGCGGCCGACTTTCTCCCTAAGTGGTTGGACCTGATAACAGTGCCAACAGGGTGTTTTTT
 CATCATGGGGAGCTGTGCATTATCCTGTGCCGAGGAACTGAAAGGATACCATGGTTACCCATGACAC
 CACCAACAATCCAGCAAGCTTTGAGTATAATCTCGGCACACCCAGAAGCTGTTTTGGCTCAGAATCTAT
 ACAAGCTGCTGTGGACAGCGCGTCAGTGGTACCCAGAAAGGTCGAAGCATCCCTCCATCGAGCACAC
 TGCTTCTCCAGCCGGCATTGTGGCGGTCTCAAGCAACAGCCAGGCTGCTGTCCGACAGCCGTCCAGG
 CCTTCTACCTACGGGACCCATTGACCTAAGAGCTGTCTGTCTTCAAGACATTTTTGCCTGAAACACG
 AATAATGGCTCGGTCACTTTCACGAAATGTCTGTACGCACAGCTGGTACAGCAGAAGTTTGTGCCAGAC
 CGGCGGAGTGGATACGGGCTCCACCTCCATCACATCCCAGTACCGAGCTTATGAACTGGGCATGAAGT
 TGGCTCATGGATTTGAGATTTGTGCTCCAAATGTAGCCACATTTTTCTGACTCCAGGAAGTCTTTGT
 GACTGCCTCACCGCTCTGGGCCAGCTTCTTGAAGTCTGAAAAGGAATGACTACTTTAAGGGACTGATG
 GACGGCTCTGCGCAGTACCAGGAGAGACTAGAAATGGCAAAGAATAATTTCCAGCTCTCTATACACCGGC
 CAGAAAGTTCACCTTGCTATGAGCCAGGGAAGAGATCCTAACCGTGTACAGACACAGCCATTTGACG
 CGCCGAGCTCAAGACAGAAGAAGCTGACCTTCTCCGGAGGACGATGACCAGTGGTTAGACCTCTACCA
 GACCAGTTAGACCAGCTACTGCAAGATGCTGCGGGCAGAAAAGAATCCCAGCCGGTCCCAGAAGGAGG
 AGCTGCAGAACTATGATGTAGCGCAGGTCTCAGACAGCATGAAGGCCCTCATCTCCAAAGTGTCTAGCCA
 CAAGGGGGCAGAGCTGCCAGAGACCTTCGGAAGCTCCAATCACTTTTGTGATGAGATTCTTTTCTGAAT
 TATTTTGATAAGATTTTAGGAGCAAAGCCTCAGGAGTCACTCTGAGGATGACCCGGGTGAGGAGGACG
 TGAAGGTGTAGACAGTATGATGACGTGGGCTTTGAGGCTCAGGAGTCTGAGTCTCTGAAAGGAGCCCT
 TGGCAGCCTCAAGTCTACATGGCCGGATGGACCAGAACTGGCACACACCAGCATGGGCAGAAGCTTC
 ACCACGCGGGAGCGATTGAATAAGGACCTCCATCCCACACTGCAATGACAATTCAGATGAAGAAGATT
 CTGGTGCAGGAGATTGCGCTGTTGAAGCAGTGGATGTAGACCTGAACCTGATTTCAAATATACTGGAATC
 CTACAGCTCCAAGCGGGCTGGCAGGACCTGTTCCAATCTGTTACACAGCATGGGTGTGCGACTGCC
 GACAACGCTGATCACAACCCCAAGTCAGCCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209694 representing NM_027475
 Red=Cloning site Green=Tags(s)

MEGSGKLAMVEDAVEYHLFLIPDKARGTEEHREILQKYIERIMTQFAPILVPYIWQNQPFNLKYKPAKGG
 VPAHMYGMTKFGDNIEDWFIVYVIKQITKEFPELVARVEDNDGEFLLEAADFLPKWLDPDNSANRVFF
 HHGELCIIPVPRKSERIPWLPMPPTIQQALSIIISAHPEAVLASESIQAAVDRRVSGYPERVEASLHRAH
 CFLPAGIVAVLKQQRLLSAAVQAFYLRDPIDLRACRVFKTFLPETRIMASVTFKCLYAQLVQQKFVPD
 RRSYGLPPPSPQYRAYELGMKLAHGFEILCSKCSPHFSDSRKSLVTASPLWASFLESKRNDYFKGLM
 DGSAQYQERLEMAKNYFQLSIHRPESSLAMSPGEEILTVLQTPFDVAELKTEEADLPPEDDQWLDLSP
 DQLDQLLQDAAGRKESQPGPQKEELQNYDVAQVSDSMKAFISKVSSHKAELPRDPSEAPITFDADSF LN
 YFDKILGAKPQESDSEDDPGEEDVEGVSDDDVGFEAQESSESLK GALGSLKSYMARMQDEL AHTSMGRSF
 TTRERLNKDPPSHTANDNSDEEDSGAGDCAVEAVDVLNLSIINILESYSQAGLAGPASNLLHSMGVRLP
 DNADHNPQVSQ

TRTRPLE – GFP Tag – V

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:	NM_027475.3
RefSeq Size:	2801 bp
RefSeq ORF:	1926 bp
Locus ID:	70601
UniProt ID:	Q9CS74
Cytogenetics:	14 A3
Gene Summary:	Regulator of p53/TP53 stability and function. Inhibits MDM2-mediated degradation of p53/TP53 possibly by cooperating in part with TXNIP. May be involved transcriptional regulation. In vitro has intrinsic transactivation activity enhanced by EP300. May be a transcriptional activator required for the expression of glycolytic genes (By similarity). Involved in regulation of cell cycle progression (PubMed:26711270). Proposed to disrupt Rb-E2F binding leading to transcriptional activation of E2F proteins (PubMed:19640839). The cell cycle -regulating function may depend on its RUVBL1-mediated association with the R2TP complex. May play a role in regulation of pre-mRNA splicing (By similarity).[UniProtKB/Swiss-Prot Function]