

## Product datasheet for **MG225114**

### Abca12 (NM\_175210) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Abca12 (NM_175210) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Abca12
Synonyms:	4832428G11Rik; 4833417A11Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225114 representing NM_175210 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTCCCAGTTTCATCAGCTTCGGATCCTGGTGTGGAAAAATTGGCTAGGTGTCAAAGGCAGCCGC  
TTTGGACACTTGCTTGTATCTTATGGCCAGTCATTATTTTCATAATTCTGGCTATTACCCGGACAAAATT  
CCCGCCAAACAGCAAAACCAACTTGTTACCTCGCACCTCGAAACCTTCCCAGTGTGGATTCTTCCCATT  
CTACAAACCTGTCTGTGACACAGACTCTAAATGTAAGACACGCCCTATGGACCAGGATCTGTCTCC  
GCAGGAAGGGGATTGATGGACCGCTATTTAAAGAAAGCGAAATTCGAAAAGCCGTCCAACCCGAAGAG  
GGACAGCAATTTATCACTCCGGAGCACCAAGTCCAGAAAGAAGTCACACATCATTGGCCACAGTACCT  
CCAAGACCAAGCTATGATTTGGAAGGAACAGGCACAGAAAATTTCAATGGTAGCCAATTGCTTACACGCA  
TCCTTGGTTTGGAAAAGCTGCTGAAGCAAAATCAACTCCAGAAGACATACGAAGAGAGCTGTGTGAGAG  
CTACCTGGGTACTGCGGACTATGCCTTCTCTGGGTACCCTAGGAAAAACGTTTTTAACAAATTT  
TGCCTTTCGAACATGACACTTTTAGAGTCTTCACTCCAGGAACAAAATATCAAGTCTCTCAGATGTCAA  
GTGACCCCGACAATCAGAAGAGGGTGTCCGGGACTTGTCCAGGTGCTGCCTTTTTCTCAAGTGCA  
GCAGCAAAAGAGAAGTGTGGCAACTTCTGTGAGCTTACCAGATGTGTTTCAGAATGGCACCTCATTGAGC  
AGTCTATTTGGTGTCTTCAAAGGCAAAACAGGGTGTCTGTGTGAGTGCAGAAAGTTTACCACGTGTT  
AACTGATGAAGGATTCAGCACCTCCAGAAGTCTGTTAAACATCTGCTGAACACTCTGGACTCCCAAT  
GCAAGGTGACAATTCAACGCACGCATGGAGTGATGATGATGAGCAGACACTGTCCCGAGCAGTCTGGCT  
GCACAGCTCCTGATCCTGGAAAATTTGAAGATGCCATCTTGAACATATCATCAAATAGTCCATATTCTC  
CTTATTTGGCGTGTGAAGGAACATGACTGACAACTTGGCTAAGGGATCACCGACAATCTAAAACCTTCT  
GCAGTCCACAATTCACCTCAGAAAATCTTCTCAAATGGCTCCTCCGAGGACAGCTTCCCTCCATTT  
CTTGAGATCCTGAAATCCAAGCTGTCTCAACTTCGAAATTTGACGGAACCTCTCTGCGAATCAGAGACTT  
TCAGTTTCGATCAAGAAGTCTTGCCAGTTCTTAACATGAGCTTCGAGAGGCTGTGTGAAGACCATGCCTT  
TCAGTGAACACTGATTGAAGCGCAGAGCTGGGACTGACCTCACCAGTGGCTTACTGTACCATGACAAT



[View online »](#)

ATAATATCTGCAAAGCTGAGGGTTTGCTCACTGGAGATCCCAGCAAAATTAATCTCAATGTGGACTGGC  
 TCCTGGAACAGGCATTGCAAATGAATTACTTGGAGAATATCACACGGCTCATACCAACCGTAGAGGCCAT  
 GCTGCATGTCAACACCAGTGCAGACGCTTCTGAGAAGCCAGGCAATTAAGAGAAATGTTAAAAACATA  
 GATTTGCTGAAAGAAGATCTGAGGGCGATAGGGATGTCCAACACAAGTATCGACAAGCTGTTGGCCATTC  
 CCATCCAGACAATAGAGCCGAGATAATTTCTCGTGTATTCTGGTTGCACTCATGTGATACCAACGTAC  
 CAACCCAAAACCTGGAAGATGCCATGAAGGAGTTCTGCAAGCTGCCTCTCCAGAGAGATCAGATCAGTCC  
 TACCTCATCGGACTCACCTTCTGCACTACTTAGACATTTACAATTTACATACAAGGTTTTTCCCAA  
 GGAAGGATCAAAAAGCCAATGAAAAGGATGATGGAGCTTTTCATAAAGCTGAGAGAGATTCTCAATCAGTT  
 GGCTTCCGGCACACATCCACTGCTGGACAAAATGAGATCCCTGAGACAAAATGCACCTGCCAGGAGTGT  
 CCATTAACACAGGCCATGTACAGAAACTCGAATGAACTCGCCAGCAGGATCGTTCAGTACTATCTCCC  
 AGGCTCTGTGCTCCAGGGGATCACCACCGAGTACTTAACTGCTATGCTGCCTTCTCCAGAAGCCAAA  
 AGGCAACCACACCAAGGATTTTCTCACTATAAATTAACATAAAGAAGAAATGCTTCAAAATACGGGATT  
 CCTTTAAATGCTACACATTTTGTCTCCCTTACAAAAGACATCATTAAATGCCTGCTGGCCTGTGA  
 TTTGGCCTTCTTGAACCCATGTTGTTGGAAAGATTTTATATTCACCATATAACCCAACACAAAAGC  
 CATTATGAAAAGTCCAATGTAACCTAAGACAGCTGGCGGAATTAAGAGAAAAATCTCAGGAGTGGATG  
 GATAAGTCACCAATTTTCATGAATTCCTTCCACCTGCTAAACCAGACGATCCCAATGCTCCAGAATACTC  
 TACGGAACCCCTTTGTGCAAGTTTTTGTGAAGTTCTCCGTGGGACTCGATGCTGTGCAACTCCTGAAGCA  
 GATAGACGACCTTGATGTTCTCAGGCTGAAATAGTGAACAACATTGACATCATCGATCAGCTCAACACA  
 CTGTCTTCCCTGACTGTAATAATTTCTCCTGTGTTCTTACGACCGTATTCAGGCATCAGACACTGTGG  
 AGGAGATGGAGGCGGTGGCCGAACACTCTACAAGAGCAACGAGCTCTTGGAAAGTGCATTTTTAAGCT  
 TCCATCTAACGGAAGTTCGCACAGAGGGTTGACCCTGAAAAGTGTCTTCTCCTATCGTAAGATAT  
 ACCATCCGCATGAGTCTGAAGACGGCACAGACCACAAGGAGCATAAGAACAAGATCTGGCCCCAGGGC  
 CACACAACCTCCATCCATAACCAAGTCTATGGCCGGCTTTCATTTATCTGAGGATAGCATGATGAGAG  
 AGCAATATTGAGTTACAAAACAGGAAGGAACCTCACAGGAAGTCGCCGTCAGGTTCAAGCGGTTCCCTAT  
 CCCTGCTTCATGAAGACAATTTCTCACCAGTGTCTCCTATTCCCTCCCGATTGTGCTTATGGTCGCT  
 GGGTTGTATTTATAGCTGCCTTTGTTAAAAAGCTAGTCTACGAGAAGGACCTTCGGCTCCATGAGTACAT  
 GAAGATGATGGGCGTCAACTCCTGCAGCCATTTCTTTCCTGGCTTATAGAGAGTATTGGTTCTTGCTG  
 GTCACCATTGCAATCCTCATCGTTATCCTCAAGTTTGGCAATATTCTTCCAAGACAAACGGCTTCATTT  
 TGTTCTGTACTTCTCGGACTACAGCTTCTCAGTATTGCCATGAGCTATCTCATCAGTGTCTTCTTCAA  
 CAACACCAACATTGCAGCTCTGATTGGAAGCCTCATCTATGTCATCGCCTTTTCCCATTTATTGTTCTA  
 GTTACAGTTGAGGATGAGCTGAGCTACGTTATTAAGTATTCATGAGCCTGCTGTCCCCGACAGCATTCA  
 GCTATGCAAGCCAATATATTGCACGGTATGAAGAACAAGGCGTTGGTCTTCAGTGGGAAAATATGTACAA  
 ATCCCCTGTTTCCAGGATGACACCCTCATTGGCTGGCTGTGCTGCTAATCCTAGCAGACTCCTTCATT  
 TATTTCTTTATTGCTTGGTACGTCAGGAATGTTTTCCAGGGACATATGGAATGGCAGCTCCATGGTATT  
 TTCCCATCCTTCTTCTATTGGAAGAGCGCTTTGGATGCGCAGAGGTGAAGCATGAGAAAAGCAATGG  
 CTTAATGTTTACTAATATCATGATGCAGAACCAACCCCTTTCGCCAGTAAGACAAGTCTGACTGTGCA  
 TTTCCCTCCAACATTGAACCTGAACCTAAAGATCTCCAAGTTGGAGTTGCCCTTCATGGGGTCACAAAGA  
 TCTATGGCTCAAAAACAGCTGTTGAGAACCTCAATCTGAACTTCTACGAAGGGCACATTACATCACTGTT  
 GGGCCAAAACGGAGCTGGCAAAACCACAACAATCTCCATGCTGACTGGGCTGTTTGGTGCCACAGCGGT  
 ACCATTTTTGTATACGGAAAAGATATCAAGACAGACCTGAATACTGTTCCGAAAAACATGGGGTCTGCA  
 TGCAACATGACGCTTGTTCAGTTACCTAACCAAGGAACACCTTCTCCTGTATGGCTCCATCAAAGT  
 TCCTCACTGGACAAAACACAGCTCCATGAGGAGGTTAAAAGGACTTTAAAAGACTGACTGATAGT  
 CATCGCCATAAGAGAGTTGGAACGTTGTCGGGAGGAATGAAGAGGAAGTTGTCCATATCCATAGCTCTCA  
 TCGGTGGCTCCAGGTAGTATTTGGATGAACCATCCACGGGCGTTGACCCATGTTCTCGCCGAAGCAT  
 ATGGGATGTCATATCCAAGAACAAAACGCAAGAACAATCATTCTGTCCACACCACTTGGATGAGGCC  
 GAAGTGTGAGTACCGCATCGCCTTCTGGAACAGGGTGGGCTCCGGTGTGTGGATCTCCATTTTACC  
 TCAAGGAAGCTTTTGGGATGGTTACCACCTCACACTCACAAGAAGAAGAGTCCAAACCTAGACACAAA  
 TGCAATCTGTGACACAGTGGCAGTGACAGCAATGATCCAGTCGCACCTTCTGAAGCCTACCTCAAAGAG  
 GATATTGGGGGAGAGCTTGTATATGTGCTCCCTCCATTAGCAGCAAGTCTCAGGAGCTTACCTGTCCC  
 TCCTGAGAGCACTGGACAAGGGCATGGGTTAACTCAACATCGGCTGCTATGGCATTTTACAGACCACTGT  
 TGAAGAGGTTCTTCTGAACTTGACAAAAGATTGCAAAAAGTAGTAATATGAGTCTGGAGCACTTAAACA  
 CAGAGGAAAGTTGGGAACCCAGTGCCAACGGGACCTCCACTCCTGACGACCTGTCTGTGAGCAGCAGCA

ACTTCACCGACAGAGACGACAAAAGTCTGACAAGAAGCGAGAAGCTGGAGGGCTTTGGACTCTTACTGAA  
 GAAGATAATGGCTATTCTCATCAAGAGGTTCCACCACACCCGCCGGAAGTGGAAAGGTCTCATTGCTCAG  
 GTCATTCTCCCATCGTCTTTGTAGCCACGGCCATGGGTCTCGGCACACTGAGAGATTCCAGCAACAGTT  
 ACCCAGAGATCATGATCTCTCCGTCCATTTACGGCACCTCCGAACAGACAGCCTTCTACGCGAATTTTGA  
 TCCAAGCACCAGTGGTCTGGTCTCAGCTCTCTGGAATTTCCCTGGCATTGACAATGTGTGTTTGAATACT  
 AGTGACTTGCAGTGTAAAAAAGATGATCTGGGAAAGTGGAAACACAAGTGGAGAAGCTATCGACAAC  
 TTGGTGTCTCTGTTCCGACAATGTCCAGGAATGCCCAAATCAACTATCATCCACCTCATAGAAG  
 AACTTACTCTTCCCAAGTTATTTATAACCTCACTGGAAAACACATGGAAAATTATCTTATAACAACATGCA  
 AATCATTTTGTGCAGAAAAGATATGGAGGTTGGAGTTTTGGGATGAAATTGACTAACGACCTTCGTTTTG  
 ATGTGACAGCTGTCCCTGACAATAGAACTTTGCTAAGGTGTGGTACGATCCGGAAGGCTACCATTCCCT  
 CCCAGCTTACCTCAACAGCCTCAACAACCTCTCTGAGGGTTAACATGTCAGAGTACGATGCTGCCCGA  
 CACGGGATCATCATGTATAGCCACCTTATCCAGGGTACAAGACCAGGAACAAGCCACAATCAGCAGTT  
 TAATCGATATTTAGTGGCGCTGCCATCTGTATGGGCTACTCTGTCACCACTGCCAGCTTTGTCACCTA  
 CATTGTCAGGGAACATCAGACCAAAGCCAAGCAGTTGCAGCACATTTCTGGCATCGGTGTGACGTGCTAC  
 TGGGTGACAAATTCATCTATGACATGGTCTTCTATTTGGTTCCTGTAGCATTTTCAATTGGTGTACATCG  
 CAATTTTCAAGCTTCTGCCTTCTACAGTGGAAAACATCTAGGCGCTGTATCCCTCCTACTTTTGTGTT  
 TGGCTATGCAACATTTTCTGGATGTACCTGCTGGCTGGCCTTCCATGAAACAGGAATGGCCTTCATC  
 ACTTATGTGTGTCAACCTGTTCTTTGGTATCAATTCCATTGTTTCCCTGTCCGGTGTACTTCCCTT  
 CCAAGGAAAAGCCTAATGACCCGACGCTAGAACTTATTTCTGAACTCTCAAGCGGATTTTCTGATCTT  
 CCCCCAATTCTGTTTTGGCTACGGTTTGATTGAACTTTCTCAGCAACAGGCAGTCTTGGATTTCTAAAA  
 GCCTACGGTGTGGAATATCCAAGCGAGACCTTTGAGATGGATAAGCTGGGGCAATGTTTGTGGCCTTGG  
 TTTCTCAGGGCACCATGTTTTCTTGTTCGACTCCTCATCAATGAGTGGCTGATAAAGAAGCTCAGGCT  
 CTTCTTCAGGAAATTTACATCTTCGCCTATCATGGAGACAGTAGATGAAGATGAAGATGTGCGGGCTGAG  
 AGATTACGAGTTGAGAGTGGTGCAGCTGAGTTTGACCTGGTCCAGCTCCATCGTCTCACAAAGACCTACC  
 AGCTGATCCACAAGAAGATTATAGCTGTCAACAACATCAGCCTGGGGATACCTGCTGGAGAGTGTGGTGG  
 CCTCCTTGGTGTGAACGGAGCAGGGAAAACCACTATATTTAAGATGCTGACTGGAGACATAATTCCTTCC  
 AGTGGAAACATTCTGATCAGAAACAAGAGCGGATCCCTGGGACATGTGGACTCTCACAGCTCTTGGTTG  
 GCTACTGCCCTCAGGAGGACGCTTTAGATGACCTAGTAACTGTGGAAGAGCACTTGTATTTCTATGCCAG  
 AGTGCATGGGATCCAGAGAAGGACATCAAGACACTGTTCAAACTCCTTAGGAGACTTCACTTGATG  
 GCCTACAAGGACAGATCTACCTCCATGTGCAGTTACGGCACAAAAAGGAAGCTGTCCACTGCCCTGGCCT  
 TGATAGGGAACCGTCCATCCTCCTGCTGGATGAGCCAAGCTCTGGGATGGATCCCAAGTCAAACGACA  
 CCTCTGGAGGATCATTTCAGAAGAGGTGCAGAACAATGCTCTGTATCCTCACATCTCACAGCATGGAA  
 GAATGTGAAGCTCTTTGTACCCGGCTGGCCATTATGGTGAACGGAAGGTTCCAGTGCATTGGGTCTCTGC  
 AACACATAAAAAGCAGGTTTGGACGTGGATTTACTGTCAAGGTTCACTTGAAAAATAATAAAGTGAAGCAT  
 GGAAACCTCAGGAAGTTTATGCAGCTACACTTTCCAAAAACATACTTAAAAGATCAGCACCTGAGCATG  
 CTGGAGTACCAGTGCAGTACAGCAGGAGGGTTCGAAACATCTTTGACCTTCTAGAAACCAACAAGA  
 CTGCTTTAAATATCACAATTTCTCTGTGAGCCAGACCACTTTGGAGGAGGTTTTTCACTTTTGCCAA  
 AGACAAAAATCCTACGAAAATGTTGATACCAGTAGCCAAGGTTCCACCATAAGTGTAGACTCACAGGAA  
 GATCAACTAGATTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG225114 representing NM\_175210  
 Red=Cloning site Green=Tags(s)

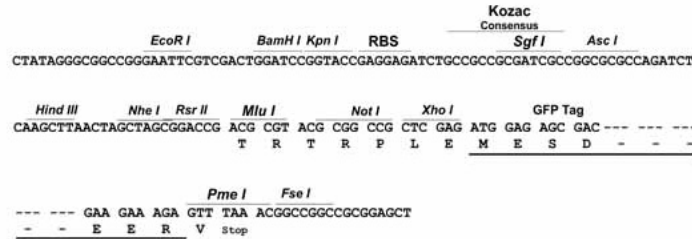
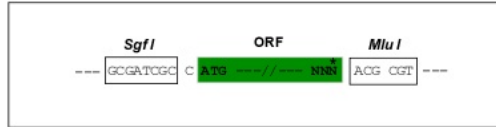
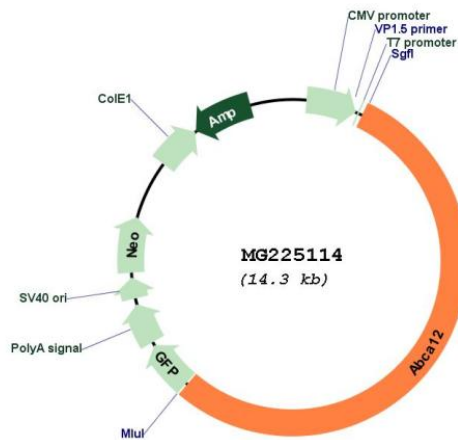
MASQFHQLRILVWKNWLVGKRQPLWTLVLILWPVIFIIILAITRTKFPPTAKPTCYLAPRNLPSAGFFPF  
 LQTLLCDTDSKCKDTPYGRDLRRKGDGPLFKESEILKKPSNPKRDSNLSLRSTQVPERSHSLATVP  
 PRPSYDLEGTGTENFNQSLLTRILGLEKLLKQNSTPEDIRRELCESYPGYTADYAFSWVTLGKNVFNKF  
 CLSNMTLLESSLQELKYQVSMSSDPDNQKRVFRGLVQVLSFFSQVQQQREVWQLLSSLPDVFNQNGTSLS  
 SLFGVLQKANRVLLVVQKVYPRVQTDEGFSTLQKSVKHLNLTLDSPMQGDNSTHAWSDDEQTLSPSSLA  
 AQLLILENFEDAILNISSNSPSPYLACVRNMTDNLAKGSPDNLKLLQSTIHFRKSFLQNGSSEDSFPPF  
 LEILKSKLSQLRNLTELLCESETFSSIKKSCQFSNMSFERLCEDHAFHVQLIEAAELGDLTTGLLYHDN  
 IISAKLRGLLTGDPKINLNVDWLLEQALQMNYLENITRILPTVEAMLHVNTSADASEKPGQLREMFKNI  
 DLLKEDLRAIGMSNTSIDKLLAIPDPNRAEIIISRVFWLHSCDTNVTNPKLEDAMKEFCKLPLPERSHQ  
 YLIGLTLHYLDIYNFTYKVFPRKQKPMERMELFIKREILNQLASGTHPLLDKMRSLRQMHLPKRSV  
 PLTQAMYRNRMNPSAGFSSTISQALCSQGITTEYLTAMLSSQKPKGNHTKDFLTYKLTKEEIASKYGI  
 PLNATPFCFSLYKDIINMPAGPVIWAFKPMMLLGIKILYSPYNPTTKAIMEKSNVTLRQLAELREKSQEW  
 DKSPIFMNSFHLLNQTIPMLQNTLRNPFVQVVFVSVGLDAVELLKQIDDLVLRLLKLVNNDIIDQLNT  
 LSSLTVNISSCVLYDRIQASDTVEEMEAVAEQLYKSNELFGSVIFKLPNSGSSHRGFDPEKVSPLPIVRY  
 TIRMSLKAQTTRSIRTKIWAQPHNSPHNQIYGRAFIYLQDSIERAIIELQTGRNSQEVAVQVQAVPY  
 PCFMKDNFLTSSVSLPIVLMVAWVVFIAAFVKKLVYEKDLRLHEYMKMMGVNSCSHFFAWLIESIGFLL  
 VTIAILIVILKFGNLPKTNGFILFLYSDYSFSVIAMSYLISVFFNNTNIAALIGSLIYVIAFFPFIVL  
 VTVEDELSYVIKVFMSLLSPTAFSYASQYIARYEEQGVGLQWENMYKSPVQDDTTSFGWLCCILADSF  
 YFFIAWYVRNVFPGTYGMAAPWYFPIPSYWKERFGCAEVKHEKSNGLMFTNIMMONTNPSAKTSPDCA  
 FPSNIEPEPKDLQVVALHGVTKIYGSKTAVENLNLNFYEGHITSLLGPNAGAGKTTTISMLTGLFGATAG  
 TIFVYGGDIKTDLNTVRKNMGVCMQHDVLFSYLTTKEHLLLYGSIKVPHWTKTQLHEEVKRTLKDTGLYS  
 HRHKRVGTLSGGMKRKLSISIALIGGSRVVILDEPSTGVDPSCRRSIWDVVISKNKTARTIILSTHHLDEA  
 EVLSDRIAFLQGGRLCCGSPFYLKEAFGDGYHLTLTKKSPNLDTNAICDTVAVTAMIQSHLPEAYLKE  
 DIGGELVYVLPFSTKVSAGAYLSLLRALDKGMGKLNIGCYGISDTTVEEVFLNLTKDSQKSSNMSLEHLT  
 QRKVGNSANGSTPDDL SVSSSNFTDRDDKVLTRSEKLEGFGLLLKKIMAILIKRFHHTRRNWKGLIAQ  
 VILPIVAVATAMGLGTLRDSNSYPEIMI SPSIYGTSEQTAFYANFDPSTGLVSALWNFPIDNVCLNT  
 SDLQCLKKDDLKWNWTSGEAIDNFGVCSCSDNVQECPKFNYHPPHRTYSSQVIYNLTGKHMENYLITTA  
 NHFVQKRYGGWSFGMKLTNDLRFDVTAVPDNRTLAKVWYDPEGYHSLPAYLNSLNNFLLRVNMSEYDAAR  
 HGIIMYSHYPGVQDQEQATISSLIDILVALSILMGYSVTTASFVYIVREHQTKAKQLQHSIGIVTCY  
 WVTNFIYDMVLYVPVAFSIGVIAIFKLPAFYSGNNLGAVSLLLLFGYATFSWYLLAGLPHETGMAFI  
 TYVCVNLFFGINSIVSLSVVYFLSKEKPNPTLEL ISETLKRIFLIFPQFCFGYGLIELSQQAVLDFLK  
 AYGVEYSETFEMDKLGAMFVALVSQGMFFLLRLLINEWLIKLRLLFRKFTSSPIMETVDEDEDVRAE  
 RLRVESGAAEFDLVQLHRLTKTYQLIHKKIIAVNNISLGPAGECFGLLVNGAGKTTIFKMLTGDIIIPS  
 SGNILIRNKSGSLGHVDSHSSLVGYCPQEDALDDLVTVEEHLFYARVHGIPEKDIKDTVHKLRLRLHLM  
 AYKDRSTSMCSYGTKRKLSTALALIGKPSILLLDEPSSGMDPKSKRHLWRIISEEVQNKCSVILTSHSME  
 ECEALCTRLAIMVNGRFQCIGSLQHIKSRFGRGFTVKVHLKNNKVSMTLTKFMQLHFPKTYLKDQHL  
 SMLEHYHVPVTAGGVANIFDLEETNKALNITNFLVVSQTTLLEEVFINFAKDQKSYENVDTSSQGSTISVDSQE  
 DQLDS

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**Plasmid Map:**

**ACCN:** NM\_175210

**ORF Size:** 7785 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_175210.3</a></u> , <u><a href="#">NP_780419.2</a></u>
<b>RefSeq Size:</b>	8323 bp
<b>RefSeq ORF:</b>	7788 bp
<b>Locus ID:</b>	74591
<b>UniProt ID:</b>	<u><a href="#">E9Q876</a></u>
<b>Cytogenetics:</b>	1 C3
<b>Gene Summary:</b>	Transports lipids such as glucosylceramides from the outer to the inner leaflet of lamellar granules (LGs) membrane, whereby the lipids are finally transported to the keratinocyte periphery via the trans-Golgi network and LGs and released to the apical surface of the granular keratinocytes to form lipid lamellae in the stratum corneum of the epidermis, which is essential for skin barrier function (PubMed:18957418, PubMed:27551807, PubMed:24293640, PubMed:20489143, PubMed:18802465). In the mean time, participates in the transport of the lamellar granules-associated proteolytic enzymes, in turns regulates desquamation and keratinocyte differentiation (PubMed:27551807, PubMed:20489143). Furthermore, is essential for the regulation of cellular cholesterol homeostasis by regulating ABCA1-dependent cholesterol efflux from macrophages through interaction with NR1H2 and ABCA1 (PubMed:18802465, PubMed:23931754). Plays pleiotropic roles in regulating glucose stimulated insulin secretion from beta cells, regulating the morphology and fusion of insulin granules, lipid raft abundance and the actin cytoskeleton (PubMed:32072744). Also involved in lung surfactant biogenesis (PubMed:18632686).[UniProtKB/Swiss-Prot Function]