

Product datasheet for **SC315343**

GIGYF2 (NM_015575) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	GIGYF2
Synonyms:	GYF2; PARK11; PERQ2; PERQ3; TNRC15
Vector:	<u>pCMV6 series</u>

Fully Sequenced ORF: >NCBI ORF sequence for NM_015575, the custom clone sequence may differ by one or more nucleotides

```

ATGGCAGCGGAAACGCAGACACTGAACTTTGGGCTGAATGGCTCCGAGCTCTGTCCAGT
GGTGGGAGTATTACATCCCCTCCTCTTTCTCCAGCATTGCCGAAGTATAAATTAGCAGAT
TATCGTTACGGCAGAGAAGAAATGTTAGCACTTTTCTTAAAGACAACAAGATACCTTCA
GACCTTCTGGATAAAGAATTTCTGCCTATCCTCCAGGAGGAACCCCTTCCACCATTGGCT
CTGGTACCCCTTACAGAAGAAGAACAGAGAACTTTTCCATGTCTGTAATAGTGCTGCT
GTCCTGCGATTGACAGGACGAGGAGGAGGAGGAACAGTGGTGGGGCTCCTAGAGGTCGA
AGTTCTTCAAGAGGGCGAGGCAGAGGCAGAGGTGAATGTGGTTTCTACCAAAGAAGTTT
GATGAAGTAGAGGGTGTGTTTGGTCGAGGAGGTGGCAGAGAAATGCATAGATCGCAGAGC
TGGGAGGAAAGGGGTGACAGACGTTTTGAAAAACAGGACGAAAAGATGTAGGGAGACCA
AATTTTGAAGAGGTGGACCAACATCAGTAGGGAGAAAGCATGAATTTATACGCTCAGAA
AGTGAAAAATTGGCGCATCTTTAGAGAGGAACAAAATGGAGAAGATGAAGATGGAGTTGG
CGACTAGCTGGATCAAGGAGGGATGGAGAGAGGTGGCGACCTCACAGTCTGATGGCCCT
CGTTCTGCAGGCTGGCGGGAACACATGGAACGACGTCGGAGGTTTGAGTTTGATTTTCGA
GATAGAGATGATGAACGGGGTTACCGAAGGGTTCGCTCTGGCAGTGGGAGCATAGATGAT
GACAGGGATAGCTTGCCGAATGGTGCTTAGAGGATGCTGAAGAAGAAATGGGTACATTT
GACTCATCTGGAGCATTCTTTCTCTAAAAAAGTACAGAAAGAGCCTATTCCAGAAGAG
CAGGAGATGGACTTCCGGCCTGTGGACGAAGGGGAGGAGTGCTCTGACTCTGAGGGTAGC
CATAATGAAGAGGCCAAAGAACCCGATAAGACAAATAAGAAAAGAGGAGAGAAAAACAGAT
AGAGTAGGAGTTGAAGCTAGTGAGGAACTCCCGACCTCATCATCTGCTAGACCA
GGTACTCCTTCAGACCATCAGTCTCAGGAAGCATCACAGTTTGAGAGGAAAGATGAACCA
AAAAGTGAAGAGGAGGAGGAGTGAAGAGGAGTGGATGGAAAATAGTCTACAGCC
AAAGTCCCCAGCAGAGGGGATGAAATGGTTGCTGATGTCCAGCAGCCCCTGTCCGAGATT
CCTTCAGATACAGCCTCTCCTCTTCTCATACTTCCACCTCCTGTTCCCAATCCTAGTCCT
ACTCTCCGGCCAGTTGAAACACCAGTTGTAGGTGCTCCTGGTATGGGCAGTGTTCCACA
GAACCTGATGATGAAGAAGGTCTCAACATTTGGAGCAGCAAGCTGAGAAAATGGTGGCT
TATCTCCAAGACAGTGCATAGATGATGAAAGATTGGCATCAAACTGCAAGAGCACAGA
GCTAAAGGAGTGTCGATTCCATTGATGCATGAAGCAATGCAGAAAGTGGTATTACAAAGAT
CCTCAGGGAGAAATTCAGGTCCCTTCAATAATCAGGAGATGGCAGAAATGGTTTCAGGCG
GGCTATTTTACTATGTCTTTATTGGTGAAGAGAGCGTGTGATGAAAGCTTCCAACCTCTT
GGCGATATCATGAAATGTGGGAAGGGTTCCTTTTCTCCAGGTCCAGTCCCCCTCCT
CATATGGGAGAGCTGGACCAGGAACGACTGACCAGGCAGCAAGAACTCACAGCCTTATAC

```



CAGATGCAGCACCTGCAGTACCAGCAGTTTTTAATACAACAACATATGCACAGGTTTTG
GCCCCACAGCAGAAAGCAGCACTGTCTCCAGCAGCAGCAGCAGTTGGCACTTCTTCTT
CAACAGTTTCAGACCTTGAAGATGAGAATATCTGATCAGAACATCATTCCCTCAGTAACT
AGGTCTGTGTCGTGCCAGATACTGGCTCTATCTGGGAGCTTCAGCCAACAGCTTCACAG
CCTACAGTTTGGGAAGGTGGTAGTGTATGGGATCTTCTCTGGACACCACGACACCAGGC
CCTGCCCTGGAACAGCTTCAGCAGCTAGAGAAGGCCAAAGCTGCAAGCTAGAGCAAGAG
AGAAGAGAGGCAGAAATGAGGGCAAAACGGGAAGAGGAAGAGCGAAAGAGGCAGGAAGAA
CTCCGAAGACAACAGGAGGAAATTCTTCGGCGACAGCAGGAAGAAAGAAAGGAAAGGCGA
GAGGAAGAAGAACTTGCCCAAGGAAACAGGAAGAGGCTCTGCGTCGCCAGCGGGAGCAA
GAAATTGCATTAAAGGCGACAGCGAGAAGAGGAAGAAAGACAGCAGCAAGAAGAGCTCTT
AGAAGACTGGAAGAGAGGAGAAGAGAAGAGGAAGAAAGGCGGAAGCAGGAAGAATTGTTA
CGCAAAACAGGAAGAGGAGGCTGCAAAATGGGCCCGGGAAGAAGAAGAAAGCCAGCGTCGA
TTAGAGGAGAACCAGGCTGCGGATGGAAGAGGAGGCAGCCAGACTCCGGCATGAGGAAGAA
GAACGGAAGAGAAAGGAGCTGGAGGTCCAGCGGCAGAAGGATTAATGCGCCAGAGGCAA
CAGCAGCAAGAGGCTCTCCGAGGTTGCAGCAGCAGCAGCAGCAACAACAGCTGGCGCAG
ATGAAGCTTCTTCTTCTCAACGTGGGGCCAGCAGTCCAATACAACAGCATGTCACTCC
CAGGCCACGCTGTCTGGTGGCTGAAATCCAAAACTAGAGGAAGAACGAGAACCGCAGCTT
CGAGAAGAGCAAAGGCGCCAGCAGAGGGAGTTGATGAAAGCTCTTCAGCAGCAGCAGCAA
CAGCAACAGCAGAACTCTCAGGTTGGGGAATGTCAGCAACCTTCAGGTACCACGAAA
TCTCTTCTGGAGATCCAGCAGGAAGAGGCCAGGCAATGCAAAAGCAGCAGCAGCAGCAG
CAGCAACACCAGCAACCAACAGAGCTCGTAACAATACGCATTCCAACCTGCACACCAGC
ATTGGGAATTCTGTTTGGGCTCTATAAACTGGTCTCTTAACCAAGTGGGCATCTGAC
CTAGTCAGTAGTATTTGGAGTAATGCTGACACTAAAACTCCAACATGGGATTCTGGGAT
GATGCAGTGAAAGAGGTGGGACCTAGGAATTCAACAAATAAAAAATAAAACAACGCCAGT
CTCAGTAAATCTGTAGGTGTGTCTAACCGGCAGAATAAGAAAGTAGAAGAAGAAAGAAAG
TTGCTGAAGCTCTTTCAGGGAGTAATAAGGCCAAGATGGATTACGCAGTGGTGTGAA
CAGATGCTTCATGCCCTTAATACGGCAATAACTTGGATGTTCCACATTTGTTTCTTTC
CTGAAAAGAGTAGAATCTCCTTATGAGGTCCATGATTATATCAGGGCCTATTTAGGAGAT
ACTTCTGAGGCCAAGGAGTTTGCCAAGCAGTTCCTTGAGCGCGTGCCAAACAGAAAGCC
AACCAGCAGCGTCAGCAGCAGCAGCTGCCACAGCAGCAGCAGCAGCAGCGCCACAGCAG
CCGCCACAGCAGCCACAACAGCAGGACTCTGTGTGGGGGATGAACCACAGTACACTCCAT
TCAGTATTTTCAAGCAATCAAAGCAACAACCAACATCCAATTTTGGGCTGTGCAGAGT
GGCAAGAAGAAGAAAAAGCAGAAGATGGTCCGAGCAGATCCAGTTTATTAGGATTTTCA
GTCAATGCATCATCGGAGCGACTCAACATGGGTGAAATCGAGACGTTGGATGACTAC

Restriction Sites:

Please inquire

ACCN:

NM_015575

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).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_015575.2</u> , <u>NP_056390.2</u>
RefSeq Size:	5959 bp
RefSeq ORF:	3900 bp
Locus ID:	26058
UniProt ID:	<u>Q6Y7W6</u>
Cytogenetics:	2q37.1
Gene Summary:	This gene contains CAG trinucleotide repeats and encodes a protein containing several stretches of polyglutamine residues. The encoded protein may be involved in the regulation of tyrosine kinase receptor signaling. This gene is located in a chromosomal region that was genetically linked to Parkinson disease type 11, and mutations in this gene were thought to be causative for this disease. However, more recent studies in different populations have been unable to replicate this association. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013] Transcript Variant: This variant (2) contains an alternate exon in the 5' UTR and lacks an exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (b) is shorter than isoform a. Both variants 2 and 3 encode the same isoform (b). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.