

Gene: GJB2 - Sequence: NG_008358.1
Transcript: NM_004004.5 - Protein: NP_003995.2
Date : March 2, 2015

1st line: Base numbering. Full stops for intronic +/- 5, 10, 15...
2nd line: Base sequence. lower case Introns, upper case Exons
3rd line: Amino acid sequence. Printed on FIRST base of codon
4th line: Amino acid numbering. Numbered on 1st and increments of 10

Exon 1 | Start: 5001 | End: 5193 | Length: 192

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. . . . . . . . . . . . . . . .
ctggggggtcccgactctcagccgcccccgcttcacccgggcccgaaggggctggggga

. . . . . . . . . . . . . . . .
ggcggcgctcggggtaaccgggggagactcagggcgctgggggcacttgggggaactcatg

. . . . . . . . . . . . . . . .
gggggtcaaaggaactaggagatcgggacctcgaaggggacttgggggggttcggggcttt

. . . . . . . . . . . . . . . .
cgggggcggtcgggggttcgcggacccgggaagctctgaggaccagaggccgggcgcgc

. . . . . . . . . . . . . . . .
tccgccgcggcgccgccccctccgtaactttcccagctctccgaggggaagaggcgggggtg

      |-209      |-199      |-189      |-179      |-169      |-159
GGGGTGCGGTTAAAAGGCGCCACGGCGGGAGACAGGTGTTGCGGCCCCGAGCGCCCGCG

      |-149      |-139      |-129      |-119      |-109      |-99
CGCTCCTCTCCCCGACTCGGAGCCCCCTCGGCGGGCGCCCGGCCAGGACCCGCTAGGAGC

      |-89      |-79      |-69      |-59      |-49      |-39
GCAGGAGCCCCAGCGCAGAGACCCCAACGCCGAGACCCCGCCCCGGCCCCGCCGCGCTT

      |-29
CCTCCCGACGCAGgtgagcccgccggccccggactgcccggccaggaacctggcgcgggg

. . . . . . . . . . . . . . . .
agggaccgcgagaccagagcggttgcccgccgcgtgggtctcggggaaccgggggggt

. . . . . . . . . . . . . . . .
ggaccaacacacgtccttgggcccggggggcgggggccgccttctggagcgggcgtttctg

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.
cggccgagctccggagctggaatggggcggccggggaagtggacgcgatggcaccgcccg
.
gggtgcgagtggggccgggcgcgcgcgggaggggaaaaaggcgcgggcgagccgccagcg
. . .
cgaggtttggtgt

Exon 2 | Start: 8373 | End: 10513 | Length: 2140

.
gacactccccagcacagcaaatttttatgatgtgtttaagattgggtgaattactcagg
.
tgaacaagctactttttatcagagaaacacctaataaacacgttcaagagggtttgggaact
.
atacatTTaatcctatgacaaactaagttggttctgtcttcacctgttttggtgaggttg
.
tgtaagagttggtgtttgctcaggaagagatttaagcatgcttgcttaccagactcaga
.
gaagtctccctgttctgtcctagctagtgattcctgtgttggtgcatcgtctttcca

|-19 |-9 |1 |11 |21 |31
AGCAAACCGCCCAGAGTAGAAGATGGATTGGGGCACGCTGCAGACGATCCTGGGGGGTGT
M D W G T L Q T I L G G V
|1 |11

|41 |51 |61 |71 |81 |91
GAACAAACACTCCACCAGCATTGGAAAGATCTGGCTCACCGTCCTCTTCATTTTTTCGCAT
N K H S T S I G K I W L T V L F I F R I
|21 |31

|101 |111 |121 |131 |141 |151
TATGATCCTCGTTGTGGCTGCAAAGGAGGTGTGGGGAGATGAGCAGGCCGACTTTGTCTG
M I L V V A A K E V W G D E Q A D F V C
|41 |51

|161 |171 |181 |191 |201 |211
CAACACCCCTGCAGCCAGGCTGCAAGAACGTGTGCTACGATCACTACTTCCCCATCTCCCA
N T L Q P G C K N V C Y D H Y F P I S H
|61 |71

|221 |231 |241 |251 |261 |271
CATCCGGCTATGGGCCCTGCAGCTGATCTTCGTGTCCACGCCAGCGCTCCTAGTGGCCAT
I R L W A L Q L I F V S T P A L L V A M
|81 |91

| | | | | | |
|---|-------|-------|-------|-------|-------|
| *201 | *211 | *221 | *231 | *241 | *251 |
| ACAAAGGCCTAATTCTATGCCTGTCTTAATTTTCTTTCACTTAAGTTAGTTCCACTGAGA | | | | | |
| *261 | *271 | *281 | *291 | *301 | *311 |
| CCCCAGGCTGTTAGGGGTTATTGGTGTAAGGTACTTTCATATTTTAAACAGAGGATATCG | | | | | |
| *321 | *331 | *341 | *351 | *361 | *371 |
| GCATTTGTTTCTTTCTCTGAGGACAAGAGAAAAAGCCAGGTTCACAGAGGACACAGAG | | | | | |
| *381 | *391 | *401 | *411 | *421 | *431 |
| AAGGTTTGGGTGTCCTCCTGGGGTTCTTTTTGCCAACTTTCCCCACGTTAAAGGTGAACA | | | | | |
| *441 | *451 | *461 | *471 | *481 | *491 |
| TTGGTTCTTTCATTTGCTTTGGAAGTTTTAATCTCTAACAGTGGACAAAGTTACCAGTGC | | | | | |
| *501 | *511 | *521 | *531 | *541 | *551 |
| CTTAAACTCTGTTACACTTTTTTGGAAGTGAAAACTTTGTAGTATGATAGGTTATTTTGAT | | | | | |
| *561 | *571 | *581 | *591 | *601 | *611 |
| GTAAAGATGTTCTGGATACCATTATATGTTCCCCCTGTTTCAGAGGCTCAGATTGTAATA | | | | | |
| *621 | *631 | *641 | *651 | *661 | *671 |
| TGTAATGGTATGTCATTCGCTACTATGATTTAATTTGAAATATGGTCTTTTGTTTATGA | | | | | |
| *681 | *691 | *701 | *711 | *721 | *731 |
| ATACTTTGCAGCACAGCTGAGAGGCTGTCTGTTGTATTTCATTGTGGTCATAGCACCTAAC | | | | | |
| *741 | *751 | *761 | *771 | *781 | *791 |
| AACATTGTAGCCTCAATCGAGTGAGACAGACTAGAAGTTCCTAGTGATGGCTTATGATAG | | | | | |
| *801 | *811 | *821 | *831 | *841 | *851 |
| CAAATGGCCTCATGTCAAATATTTAGATGTAATTTTGTGTAAGAAATACAGACTGGATGT | | | | | |
| *861 | *871 | *881 | *891 | *901 | *911 |
| ACCACCAACTACTACCTGTAATGACAGGCCTGTCCAACACATCTCCCTTTTCCATGACTG | | | | | |
| *921 | *931 | *941 | *951 | *961 | *971 |
| TGGTAGCCAGCATCGGAAAGAACGCTGATTTAAAGAGGTCGCTTGGAATTTTATTGACA | | | | | |
| *981 | *991 | *1001 | *1011 | *1021 | *1031 |
| CAGTACCATTTAATGGGGAGGACAAAATGGGGCAGGGGAGGGAGAAGTTTCTGTCGTTAA | | | | | |
| *1041 | *1051 | *1061 | *1071 | *1081 | *1091 |
| AAACAGATTTGGAAAGACTGGACTCTAAAGTCTGTTGATTAAAGATGAGCTTTGTCTACT | | | | | |

| | | | | | |
|--|-------|-------|-------|-------|-------|
| *1101 | *1111 | *1121 | *1131 | *1141 | *1151 |
| TCAAAAGTTTGTTTGCTTACCCCTTCAGCCTCCAATTTTTTAAGTGAAAATATAGCTAAT | | | | | |
| *1161 | *1171 | *1181 | *1191 | *1201 | *1211 |
| AACATGTGAAAAGAATAGAAGCTAAGGTTTAGATAAAATATTGAGCAGATCTATAGGAAGA | | | | | |
| *1221 | *1231 | *1241 | *1251 | *1261 | *1271 |
| TTGAACCTGAATATTGCCATTATGCTTGACATGGTTTCCAAAAAATGGTACTCCACATAT | | | | | |
| *1281 | *1291 | *1301 | *1311 | *1321 | *1331 |
| TTCAGTGAGGGTAAGTATTTTCCTGTTGTCAAGAAATAGCATTGTAAAAGCATTTTGTAAT | | | | | |
| *1341 | *1351 | *1361 | *1371 | *1381 | *1391 |
| AATAAAGAATAGCTTTAATGATATGCTTGTAACATAAAATAATTTGTAATGTATCAAATA | | | | | |
| *1401 | *1411 | *1421 | *1431 | . | . |
| CATTTAAACATTAAATATAATCTCTATAATAATTTAAAAAtctaatatgggttttaatag | | | | | |
| . | . | . | . | . | . |
| aacagcaaatttttaatttcacatctatcactttttatataaaatacattaatgttttatattt | | | | | |
| . | . | . | . | . | . |
| cataacaccaatgggtaagttgccagagtgctctgacccattctgccccagttacagaaa | | | | | |
| . | . | . | . | . | . |
| agcttctgtcaccagaaaagtttggtggggaaggaaggaggagaagatgatttctacctaac | | | | | |
| . | . | . | . | . | . |
| cccgtgccacctctaccaggtttttgaggcatatcagtctatggacaatgtggtgtttg | | | | | |
| . | . | . | . | . | . |
| gtctggaaacgtaccttggtgaatgctgagttggctggaca | | | | | |

GBK Parser: Version: 1.1, Version Date: 11/02/2015
Reader: Version: 1, Version Date: 11/02/2015
Writer: Version: 1, Version Date: 11/02/2015
Control: Version: 1, Version Date: 11/02/2015