

A

Bos taurus
Homo sapiens
Canis familiaris
Mus musculus
Rattus norvegicus
Gallus gallus
Tetraodon nigroviridis
Aedes aegypti
Drosophila melanogaster

p.Gly81Ser

↓
TCSPLDFHCDNGKCIIRRSWVCDGDNDCEDDSDQDCP
TCSPLDFHCDNGKCIIRRSWVCDGDNDCEDDSDQDCP
TCSPLDFHCDNGKCIIRRSWVCDGDNDCEDDSDQDCP
TCSPLDFHCDNGKCIIRRSWVCDGDNDCEDDSDQDCP
TCSPLDFHCDNGKCIIRRSWVCDGDNDCEDDSDQDCP
TCSPLDFHCDNGKCIIRRSWVCDGDNDCEDDSDQDCP
MCTADQFRCGNGRCIRLSWRCDEDDCADHSDEEGCE
TCSPEFTCKDGRCILRSWVCDGTADCKRGEDEQDCE
NCTDDQFECLNGFCIPRTWVCDGENDCKDFSEDETHCN
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B

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p.Gly907Arg

↓
GYMYWTDWGASPKIERAGMDASGRQVISSNLTWPNGLAIDYGS
GYMYWTDWGASPKIERAGMDASGRQVISSNLTWPNGLAIDYGS
GYMYWTDWGASPKIERAGMDASSRQVISSNLTWPNGLAIDYGS
GYMYWTDWGASPKIERAGMDASSRQVISSNLTWPNGLAIDYGS
GYMYWTDWGASPKIERAGMDASNRQVISSNLTWPNGLAIDYGS
GFMYWTDWGANPKIERAGMDASNRLVIISSNLTWPNGLAIDYES
GFMYWTDWGANPKIERAGMDASSRVVIISSNLTWPNGLAIDYDT
GYMFWSWGSNPLIERAGMDGSGRVTLVSENQWPNGLALDTON
GFMFWSWGDPMIERANMDGHERVTITSKKLIYPNGLAIDYEK
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C

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p.Gly1199Ser

↓
GFMYWTDWGEHAKLERSGMDGSDRAVLINSNLGWPNGLTVDKAS
GFMYWTDWGENAKLERSGMDGSDRAVLINNNLWGPNGLTVDKAS
GFMYWTDWGENAKLERSGMDGSDRTVLISNNLWGPNGLTVDKAS
GFMYWTDWGENAKLERSGMDGSDRTVLINNNLWGPNGLTVDKTS
GFMYWTDWGENAKLERSGMDGSDRTVLINNNLWGPNGLTVDKTS
GYMYWTDWGENAKLERSGMDGSGRVVLISNNLWGPNGLAVDKAG
GYLYWTDWGEHAKLERSAMDGSGRVVLISNNLWGPNGLAIDTAG
GYLFWSDWRKEPVIERADMDGEHRKRIVTTDLGFVSGLAVDSE
GLLFWTDWGHYRKIERSHLDGNERSRIVTANLWGPNGLSLDLKS
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D

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p.(Asn1621Lys; Gly1622Cys)

p.Pro1647Lys

↓ ↓ ↓
CGVNNGGCTHLCFARTSDFVCACPD--EPDGRPCS--LVPGLVPPAP
CGVNNGGCTHLCFARASDFVCACPD--EPDSQPCS--LVPGLVPPAP
CGVNNGGCTHLCFARASDFVCACPD--EPDGRPCS--LVPGLVPPAP
CGVNNGGCTHLCFARASDFVCACPD--EPDGHPCS--LVPGLVPPAP
CGVNNGGCTHLCFARASDFVCACPD--EPDSHPCS--LVPGLMPPAP
CGVNNGGCTHLCFARASDFVCACPD--EPDGRPCS--TVPGVVPFGP
CGVNNGGCTHLCFAKTNSFVCACPD--EPDGRPCSTSYVPTVPAGAT
CLVNNGGCTHLCFAETRYVCGCPD--VPDERHCR--LDPAFNVPPIV
CLVNNGGCTHLCLENNVDYVVCACPDVMDPKDVACS--IKPKVLVHAN
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