

Both DNA and translated protein sequence alignments were done by STRAP, a free alignment tool (<http://www.bioinformatics.org/strap/>).

The GenBank accession numbers are listed in the table below.

| Clone | GenBank Accession# |
|----------|--------------------|
| Clone 4 | JQ395029 |
| Clone 7 | JQ395030 |
| Clone 8 | JQ395031 |
| Clone 10 | JQ395032 |
| Clone 11 | JQ395033 |
| Clone 12 | JQ395034 |
| Clone 13 | JQ395035 |
| Clone 16 | JQ395036 |
| Clone L1 | JQ395037 |
| Clone L4 | JQ395038 |

DNA sequence alignment

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 08 1081 gaggttcccagecgtgaagg^tgaa
 07 1081 gaggttcccagecgtgaagg^tgaa
 04 1081 gaggttcccagecgtgaagg^tgaa

Translated protein sequence alignment

Translation_of_L4 1 MVRGARKAVAVGVAVAVACSVQ^{QHL}NFVPG
 Translation_of_L1 1 MVRGARKAVAVGVALAVACSVQ^{QHL}NFVPG
 Translation_of_16 1 MVRGARKAAAI^GVAVAVACSVQ^{QHL}NFVPG
 Translation_of_15 1 MVRGARKAVAVGVAVAVACSVQ^{QHL}NSVPG

Translation_of_13 1 MVRGARKAVAVGVAVAVACSVQQHLNFVPG
Translation_of_12 1 MVRGARKAVAVGVAVAVACSVQQHLNFVPG
Translation_of_11 1 MVRGARKAVAVGVAVAVACSVQQHLNFVPG
Translation_of_10 1 MVRGARKSVAVGVAVAVACSVQQHLNFVPG
Translation_of_08 1 MVRGARKAVAVGVAVAVACSVQQHLNSVPG
Translation_of_07 1 MVRGARKSVAVGVAVAVACSVQQHLNFVPG
Translation_of_04 1 MVRGARKALAVGVAVAVACSVQQHLNFVPG

Translation_of_L4 31 PRHAAPVAAAAASMMMAPAAFADFIGDAAK
Translation_of_L1 31 PRHAAPVAAAAASMMMAPAAFADFIGDAAK
Translation_of_16 31 PRHAAPVAAAAASMMMAPAAFADFIGDAAK
Translation_of_15 31 PRHAAPVAAAAASMMMAPAAFADFIGDAAK
Translation_of_13 31 PRHAAPVAAAAASMMMAPAAFADFIGDAAK
Translation_of_12 31 PRHAAPVAAAAASMMMAPAAFADFIGDAAK
Translation_of_11 31 PRHAAPVAAAAASMMMAPAAFADFIGDAAK
Translation_of_10 31 PRHAAPVAAAAASMMMAPAAFADFIGDAAK
Translation_of_08 31 PRHAAPVAAAAASMMMAPAAFADFIGDAAK
Translation_of_07 31 PRHAAPVAAAAASMMMAPAAFADFIGDAAK
Translation_of_04 31 PRHAAPVAAAAASMMMAPAAFADFIGDAAK

Translation_of_L4 61 KLGDAYSFAKEVDWNNGIFLQAPGKFQPL
Translation_of_L1 61 KLGDAYSFAKEVDWNNGIFLQAPGKFQPL
Translation_of_16 61 KLGDAYSFAKEVDWNNGIFLQAPGKFQPL
Translation_of_15 61 KLGDAYSFAKEVDWNNGIFLQAPGKFQPL
Translation_of_13 61 KLGDAYSFAKEVDWNNGIFLQAPGKFQPL
Translation_of_12 61 KLGDAYSFAKEVDWNNGIFLQAPGKFQPL
Translation_of_11 61 KLGDAYSFAKEVDWNNGIFLQAPGKFQPL
Translation_of_10 61 KLGDAYSFAKEVDWNNGIFLQAPGKFQPL
Translation_of_08 61 KLGDAYSFAKEVDWNNGIFLQAPGKFQPL
Translation_of_07 61 KLGDAYSFAKEVDWNNGIFLQAPGKFQPL
Translation_of_04 61 KLGDAYSFAKEVDWNNGIFLQAPGKFQPL

Translation_of_L4 91 EALKAIDKMIEMGAAADPKLLKEAAEAHHK
Translation_of_L1 91 EALKAIDKMIEMGAAADPKLLKEAAEAHHK
Translation_of_16 91 EALKAIDKMIEMGAAADPKLLKEAAEAHHK
Translation_of_15 91 EALKAIDKMIEMGAAADPKLLKEAAEAHHK
Translation_of_13 91 KALKAIDKMIEMGAAADPKLLKEAAEAHHK
Translation_of_12 91 KALKAIDKMIEMGAAADPKLLKEAAEAHHK
Translation_of_11 91 KALKAIDKMIEMGAAADPKLLKEAAEAHHK
Translation_of_10 91 QALKAIDKMIEMGAAADPKLLKEAAEAHHK
Translation_of_08 91 EALKAIDKMIEMGAAADPKLLKEAAEAHHK
Translation_of_07 91 QALKAIDKMIEMGAAADPKLLKEAAEAHHK
Translation_of_04 91 KALKAIDKMIEMGAAADPKLLKEAAEAHHK

Translation_of_L4 121 AIGSISGPNGVTSRADWDVNAALGRVVAS
Translation_of_L1 121 AIGSISGPNGVTSRADWDVNAALGRVVAS

Translation_of_16 121 AIGSISGPNGVTSRADWDVNAALGRVVAS
Translation_of_15 121 AIGSISGPNGVTSRADWDVNAALGRVAAS
Translation_of_13 121 AIGSISGPNGVTSRADWDVNAALGRVVAS
Translation_of_12 121 AIGSISGPNGVTSRADWDVNAALGRVVAS
Translation_of_11 121 AIGSISGPNGVTSRADWDVNAALGRVVAS
Translation_of_10 121 AIGSISGPNGVTSRADWDVNAALGRVVAS
Translation_of_08 121 AIGSISGPNGVTSRADWDVNAALGRVAAS
Translation_of_07 121 AIGSISGPNGVTSRADWDVNAALGRVVAS
Translation_of_04 121 AIGSISGPNGVTSRADWDVNAALGRVVAS

Translation_of_L4 151 VPKAKVMAYDSVKDITDPAVPAYMKSLVN
Translation_of_L1 151 VPKEKVMAYDSVKDITDPKVPAYMKSLVN
Translation_of_16 151 VPKAKVMAYDSVKDITDPTVPAYMKSLVN
Translation_of_15 151 VPKAKVMAYDSVKDITDPKVPAYMKSLVN
Translation_of_13 151 VPKAKVMAYDSVKDITDPKVPAYMKSLVN
Translation_of_12 151 VPKAKVMAYDSVKDITDPKVPAYMKSLVN
Translation_of_11 151 VPKAKVMAYDSVKDITDPKVPAYMKSLVN
Translation_of_10 151 VPKAKVMAYDSVKDITDPKVPAYMKSLVN
Translation_of_08 151 VPKAKVMAYDSVKDITDPKVPAYMKSLVN
Translation_of_07 151 VPKAKVMAYDSVKDITDPKVPAYMKSLVN
Translation_of_04 151 VPKAKVMAYDSVKDITDPKVPAYMKSLVN

Translation_of_L4 181 GPDAEKAYQAFLEFKDVVAKNQVTTASAPA
Translation_of_L1 181 GPDAEKAYQAFLEFKDVVAKNQVTTASAPA
Translation_of_16 181 GPDAEKAYQAFLEFKDVVAKNQVTTASAPA
Translation_of_15 181 GPDAEKAYQAFLEFKDVVAKNQVTTASAPA
Translation_of_13 181 GPDAEKAYQAFLEFKDVVAKNQVTTASAPA
Translation_of_12 181 GPDAEKAYQAFLEFKDVVAKNQVTTASAPA
Translation_of_11 181 GPDAEKAYQGFLFKDVVAKNQVTSASAPA
Translation_of_10 181 GPDAEKAYQAFLEFKDVVAKNQVTTASAPA
Translation_of_08 181 GPDAEKAYQAFLEFKDVVAKNQVTTASAPA
Translation_of_07 181 GPDAEKAYQAFLEFKDVVAKNQVTTASAPA
Translation_of_04 181 GPDAEKAYQGFLFKDVVAKNQVTSASAPA

Translation_of_L4 211 VVPSGDKIGAAKALSDASYPFIKIDWLS
Translation_of_L1 211 VVPSGDKIGAAKALSDASYPFIKIDWLS
Translation_of_16 211 VVPSGDKIGAAKALSDASYPFIKIDWLS
Translation_of_15 211 VVPSGDKIGVAAKALSDASYPFIKIDWLS
Translation_of_13 211 VVPSGDKIGVAAKALSDASYPFIKIDWLS
Translation_of_12 211 VVPSGDKIGVAAKALSDASYPFIKIDWLS
Translation_of_11 211 VVPSGDKIGVAAKALSDASYPFIKIDWLS
Translation_of_10 211 VVPSGDKIGAAKALSDASYPFIKIDWLS
Translation_of_08 211 VVPSGDKIGVAAKALSDASYPFIKIDWLS
Translation_of_07 211 VVPSGDKIGAAKALSDASYPFIKIDWLS
Translation_of_04 211 VVPSGDKIGVAAKALSDASYPFIKIDWLS

Translation_of_L4 241 **DIYLKPLPGKTAPETLKAIDKMIVMGAKMD**
Translation_of_L1 241 **DIYLKPLPGKTAPETLKAIDKMIVMGAKMD**
Translation_of_16 241 **DIYLKPLPGKTAPETLKAIDKMIVMGAKMD**
Translation_of_15 241 **DIYLKPLPGKTAPETLKAIDKMIVMGAKMD**
Translation_of_13 241 **DIYLKPLPGKTAPETLKAIDKMIVMGAKMD**
Translation_of_12 241 **DIYLKPLPGKTAPETLKAIDKMIVMGAKMD**
Translation_of_11 241 **DIYLKPLPGKTAPATLKAIDKMIVMGAKMD**
Translation_of_10 241 **DIYLKPLTGTKAPETLKAIDKMIVMGAKMD**
Translation_of_08 241 **DIYLKPLPGKTAPETLKAIDKMIVMGAKMD**
Translation_of_07 241 **DIYLKPLPGKTAPETLKAIDKMIVMGAKMD**
Translation_of_04 241 **DIYLKPLPGKTAPATLKAVDKMIVMGAKMD**

Translation_of_L4 271 **GNULLKAAAEAHHKAIGSIDANGVTSAADYE**
Translation_of_L1 271 **GNULLKAAAEAHHKAIGSIDANGVTSADYE**
Translation_of_16 271 **GNULLKAAAEAHHKAIGSIDANGVTSAADYE**
Translation_of_15 271 **GNULLKAAAEAHHKAIGSIDAKGVTSAADYE**
Translation_of_13 271 **GNULLKAAAEAHHKAIGSIDAKGVTSAADYK**
Translation_of_12 271 **GNULLKAAAEARHKAIGSIDAKGVTSAADYE**
Translation_of_11 271 **GNULLKAAAEAHHKAIGSIDAKGVTSAADYE**
Translation_of_10 271 **GNULLKAAAEAHHKAIGSIDANGVTSAADYE**
Translation_of_08 271 **GNULLKAAAEAHHKAIGSIDAKGVTSAADYE**
Translation_of_07 271 **GNULLKAAAEAHHKAIGSIDANGVTSAADYE**
Translation_of_04 271 **GNULLKAAAEAHHKAIGSIDAKGVTSAADYE**

Translation_of_L4 301 **AVNAALGRLVASVPKSTVMDVYNMAGIVD**
Translation_of_L1 301 **AVNAALGRLVASVPKSTVMDVYNMAKVVD**
Translation_of_16 301 **AVNAALGRLVASVPKSTVMDVYNMAGIVD**
Translation_of_15 301 **AVNAALGRLVASVPKSTVMDVYNPMAGIVD**
Translation_of_13 301 **AVNAALGRLVASVPKSTVMDVYNMAGIVD**
Translation_of_12 301 **AVNAALGRLVASVPKSTVMGVYNMAGIVD**
Translation_of_11 301 **AVNAALGRLVASVPKSTVMDVYNMAGIVD**
Translation_of_10 301 **AVNAALGRLVASVPKSTVMDVYNMAKVVD**
Translation_of_08 301 **AVNAALGRLVASVPKSTVMDVYNPMAGIVD**
Translation_of_07 301 **AVNAALGRLVASVPKSTVMDVYNMAKVVD**
Translation_of_04 301 **AVNAALGRLVASVPKSTVMDVYNMAGIVD**

Translation_of_L4 331 **STVTNNMFSKVNPLDAMAAAKGFYTFKDVV**
Translation_of_L1 331 **STVTNNMFSKVNPLDAMAAAKGFYTFKDVV**
Translation_of_16 331 **STVTNNMFSKVNPLDAMAAAKGFYTFKDVV**
Translation_of_15 331 **STVTNNMFSKVNPLDAMAAAKGFYTFKDVV**
Translation_of_13 331 **STVTNNMFSKVNPLDAIAAAKGFYTFKDAV**
Translation_of_12 331 **STVTNNMFSKVNPLDAVAAAAGFYTFKDVV**
Translation_of_11 331 **STVTNNMFSKVNPLDAMAAAKGFYTFKDVV**
Translation_of_10 331 **STVTNNMFSKVNPLDAMAAAKGFYTFKDVV**
Translation_of_08 331 **STVTNNMFSKVNPLDAMAAAKGFYTFKDVV**
Translation_of_07 331 **STVTNNMFSKVNPLDAMAAAKGFYTFKDVV**

Translation_of_04 331 **STVTNNMF**SKVNP**LDAMAAAKGFYTFKD**VV

Translation_of_L4 361 **EASQR**

Translation_of_L1 361 **EASQR**

Translation_of_16 361 **EASQR**

Translation_of_15 361 **EASQR**

Translation_of_13 361 **EASQR**

Translation_of_12 361 **EASQR**

Translation_of_11 361 **GASQR**

Translation_of_10 361 **EASQR**

Translation_of_08 361 **EASQR**

Translation_of_07 361 **EASQR**

Translation_of_04 361 **EASQR**
