

```

* : * *****:*****:..* * *****:*****:***** ** :.***:*.~*~*~* ** * * * * * :.***:*.~*~*~*
gi |15235981|ref|NP_193450.1| MS-YAYLFKYLIIIGDTGVGKSCLLLQFTDKRFQPVHDLTIIVGVEFGARMIIDNKPIKLIQWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTFNHLASWLEDARQHSNSNMVIMLIGNKC-DLAHRRRAVSTEEGEQFAKEHGLIFMFA 150
gi |115446975|ref|NP_001047267.1| MS-YAYLFKYLIIIGDTGVGKSCLLLQFTDKRFQPVHDLTIIVGVEFGARMIIDNKPIKLIQWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTFNHLASWLEDARQHSNSNMVIMLIGNKC-DLSHRRRAVSYEEGEQFAKEHGLVFMFA 150
gi |17137088|ref|NP_477090.1| MS-YAYLFKYLIIIGDTGVGKSCLLLQFTDKRFQPVHDLTIIVGVEFGARMIIDGKQIKLIQWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTFNHLASWLEDARQHSNSNMVIMLIGNKC-DLDSRREVKKEEGEAFAREHGLVFMET 150
gi |158294114|ref|XP_556035.3| MS-YAYLFKYLIIIGDTGVGKSCLLLQFTDKRFQPVHDLTIIVGVEFGARMIIDGKQIKLIQWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTFNHLASWLEDARQHSNSNMVIMLIGNKC-DLDSRREVKKEEGEAFAREHGLVFMET 150
gi |10946940|ref|NP_067493.1| MA-YAYLFKYLIIIGDTGVGKSCLLLQFTDKRFQPVHDLTIIVGVEFGARMIIDGKQIKLIQWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTFNHLASWLEDARQHSNSNMVIMLIGNKC-DLESRRREVKKEEGEAFAREHGLIFMET 150
gi |13929006|ref|NP_113906.1| MA-YAYLFKYLIIIGDTGVGKSCLLLQFTDKRFQPVHDLTIIVGVEFGARMIIDGKQIKLIQWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTFNHLASWLEDARQHSNSNMVIMLIGNKC-DLESRRREVKKEEGEAFAREHGLIFMET 150
gi |114620264|ref|XP_001158465.1| MA-YAYLFKYLIIIGDTGVGKSCLLLQFTDKRFQPVHDLTIIVGVEFGARMIIDGKQIKLIQWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTFNHLASWLEDARQHSNSNMVIMLIGNKC-DLESRRREVKKEEGEAFAREHGLIFMET 150
gi |50979323|ref|NP_001003318.1| MA-YAYLFKYLIIIGDTGVGKSCLLLQFTDKRFQPVHDLTIIVGVEFGARMIIDGKQIKLIQWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTFNHLASWLEDARQHSNSNMVIMLIGNKC-DLESRRREVKKEEGEAFAREHGLIFMET 150
gi |4506365|ref|NP_002856.1| MA-YAYLFKYLIIIGDTGVGKSCLLLQFTDKRFQPVHDLTIIVGVEFGARMIIDGKQIKLIQWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTFNHLASWLEDARQHSNSNMVIMLIGNKC-DLESRRREVKKEEGEAFAREHGLIFMET 150
gi |116734835|ref|NP_001068822.1| MA-YAYLFKYLIIIGDTGVGKSCLLLQFTDKRFQPVHDLTIIVGVEFGARMIIDGKQIKLIQWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTFNHLASWLEDARQHSNSNMVIMLIGNKC-DLESRRREVKKEEGEAFAREHGLIFMET 150
gi |45382561|ref|NP_990559.1| MA-YAYLFKYLIIIGDTGVGKSCLLLQFTDKRFQPVHDLTIIVGVEFGARMIIDGKQIKLIQWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTFNHLASWLEDARQHSNSNMVIMLIGNKC-DLESRRREVKKEEGEAFAREHGLIFMET 150
gi |41393075|ref|NP_958862.1| MA-YAYLFKYLIIIGDTGVGKSCLLLQFTDKRFQPVHDLTIIVGVEFGARMIIDGKQIKLIQWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTFNHLASWLEDARQHSNSNMVIMLIGNKC-DLESRRREVKKEEGEAFAREHGLIFMET 150
gi |17507539|ref|NP_491233.1| MS-YAYLFKYLIIIGDTGVGKSCLLLQFTDKRFQPVHDLTIIVGVEFGARMIIDGKQIKLIQWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTFNHLASWLEDARQHSNSNMVIMLIGNKC-DLEARRREVKKEEGEAFAREHGLVFMET 150
gi |124806378|ref|XP_001350706.1| MSPYEYLFKYLIIIGDTGVGKSCLLLQFTDKRFQPVHDLTIIVGVEFGARMIIDNKPIKLIQWDTAGQESFRSITRSYYRGAAGALLVYDITRRDTFNHLASWLEDARQHSNSNMVIMLIGNKC-DLEARRREVKKEEGEAFAREHGLIFMET 150
1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150

```



```

**:* * * * *
gi |15235981|ref|NP_193450.1| SAKTAQNVEEAFIKTAATIKKLIQDGVFDVSNESYGIKVGYPGSPS--GGRDG-STSQGG-GCCG 217
gi |115446975|ref|NP_001047267.1| SAKTAQNVEEAFIKTAGTIKKLIQDGVFDVSNESYGIKVGYP-AVPNAS--GGGAG-SSSQGG-GCCG 217
gi |17137088|ref|NP_477090.1| SARTAANVEEAFINTAKEIYEKIQEGVFDINNEANGIKIGPOHAATNASHGSGNPGSLPAGGAAGAANS-GCC- 217
gi |158294114|ref|XP_556035.3| SARTAANVEEAFINTAKEIYEKIQEGVFDINNEANGIKIGPOHAATNASHGSGNPGSLPAGGAAGAANS-GCC- 217
gi |10946940|ref|NP_067493.1| SAKTASNVEEAFINTAKEIYEKIQEGVFDINNEANGIKIGPOHAATNASHGSGNPGSLPAGGAAGAANS-GCC- 217
gi |13929006|ref|NP_113906.1| SAKTASNVEEAFINTAKEIYEKIQEGVFDINNEANGIKIGPOHAATNASHGSGNPGSLPAGGAAGAANS-GCC- 217
gi |114620264|ref|XP_001158465.1| SAKTASNVEEAFINTAKEIYEKIQEGVFDINNEANGIKIGPOHAATNASHGSGNPGSLPAGGAAGAANS-GCC- 217
gi |50979323|ref|NP_001003318.1| SAKTASNVEEAFINTAKEIYEKIQEGVFDINNEANGIKIGPOHAATNASHGSGNPGSLPAGGAAGAANS-GCC- 217
gi |4506365|ref|NP_002856.1| SAKTASNVEEAFINTAKEIYEKIQEGVFDINNEANGIKIGPOHAATNASHGSGNPGSLPAGGAAGAANS-GCC- 217
gi |116734835|ref|NP_001068822.1| SAKTASNVEEA-----NGIKIGPOHAATNATHAGSNPGSLPAGGAAGAANS-GCC- 217
gi |45382561|ref|NP_990559.1| SAKTASNVEEAFINTAKEIYEKIQEGVFDINNEANGIKIGPOHAATNATHAGSNPGSLPAGGAAGAANS-GCC- 217
gi |41393075|ref|NP_958862.1| SAKTASNVEEAFINTAKEIYEKIQEGVFDINNEANGIKIGPOHAATNATHAGSNPGSLPAGGAAGAANS-GCC- 217
gi |17507539|ref|NP_491233.1| SAKTAANVEEAFIDTAKEIYRKIQEGVFDINNEANGIKIGPOHSPSPSPNPPGGNATGGLGGGSGCC- 217
gi |124806378|ref|XP_001350706.1| SAKTAKNVEEAFLYTARKIYDNLEEDVYDLSNESYGIKYGPNQYSRVKLDIPSMPESSRSQFSQC- 217
.....160.....170.....180.....190.....200.....210.....

```

