

Acidic Ribosomal Protein PO (L10E)

Q5E940	BOVIN	-----MPREDRATWKSNSYFLKIIQLLDDYPKCFIVGADNVGSKOMQOIRMSLRGK-AVVLGMGKNTMMRKAIRGHLENN--PALE	76
RLA0_HUMAN	-----MPREDRATWKSNSYFLKIIQLLDDYPKCFIVGADNVGSKOMQOIRMSLRGK-AVVLGMGKNTMMRKAIRGHLENN--PALE	76	
RLA0_MOUSE	-----MPREDRATWKSNSYFLKIIQLLDDYPKCFIVGADNVGSKOMQOIRMSLRGK-AVVLGMGKNTMMRKAIRGHLENN--PALE	76	
RLA0_RAT	-----MPREDRATWKSNSYFLKIIQLLDDYPKCFIVGADNVGSKOMQOIRMSLRGK-AVVLGMGKNTMMRKAIRGHLENN--PALE	76	
RLA0_CHICK	-----MPREDRATWKSNSYFMKIIQLLDDYPKCFVVGADNVGSKOMQOIRMSLRGK-AVVLGMGKNTMMRKAIRGHLENN--PALE	76	
RLA0_RANSY	-----MPREDRATWKSNSYFLKIIQLLDDYPKCFIVGADNVGSKOMQOIRMSLRGK-AVVLGMGKNTMMRKAIRGHLENN--SALE	76	
Q7ZUG3	BRARE	-----MPREDRATWKSNSYFLKIIQLLDDYPKCFIVGADNVGSKOMQOIRLSLRGK-AVVLGMGKNTMMRKAIRGHLENN--PALE	76
RLA0_ICTPU	-----MPREDRATWKSNSYFLKIIQLLNDYPKCFIVGADNVGSKOMQOIRLSLRGK-AIVLMGKNTMMRKAIRGHLENN--PALE	76	
RLA0_DROME	-----MVRENKAAWKAQYFIKWVELFDEFPKCFIVGADNVGSKOMQOIRTSLRGL-AVVLGMGKNTMMRKAIRGHLENN--PQLE	76	
RLA0_DICDI	-----MSGAG-SKRKKLFIEKATKLFITTYDKMIVAEADFGSSOLOKIRKSIRGI-GAVLMGKKTMIIRKVIIRDADSK--PELD	75	
Q54LP0	DICDI	-----MSGAG-SKRKNVFIEKATKLFITTYDKMIVAEADFGSSOLOKIRKSIRGI-GAVLMGKKTMIIRKVIIRDADSK--PELD	75
RLA0_PLAF8	-----MAKLSQKKQKMYIEKISSLIQQYSKILIVHVDNVGSKOMASVRKSLRGK-ATILMGKNTIRITALKKNLQAV--PQIE	76	
RLA0_SULAC	-----MIGLAVTTTKIAKWKVDEVAELTEKLTHTKTIILANIEGFPADKLHEIRKKLRGK-ADIKVTNNLFNTIALKNAG--YDTK	79	
RLA0_SULTO	-----MRIMAVITQERKIAKWKIEEVKELEQKIREYHTIIANIEGFPADKLHDIRKKMRGM-AEIKVTNTLFGIAAKNAG--LDVS	80	
RLA0_SULSO	-----MKRLALALKQRKVASWKLEEVKELTELKNSNTILIGNIEGFPADKLHEIRKKLRGK-ATIKVTNTLFGIAAKNAG--IDIE	80	
RLA0_AERPE	MSVVSIVGQMYKREKPIPEWKTLMLEIEELFSKHRVVFADLTGPTFVVQVRVKKLWKK-YPMVMVAKKRILLRAMKAAGLE--LDDN	86	
RLA0_PYRAE	-----MMLAIGKRRYVRTRQYPARKVKIVSEATELLQKYPYVFLFDLHGLSSRIILHEYRYRLRRY-GVIKIKPTLFIATKVYGG--IPAE	85	
RLA0_METAC	-----MAEERHHTHEIPQWKKDEIENIKELIQSHKVFQGMVIEGILATKMQKIRRDLDKV-AVLKVSRTLTTERALNQLG--ETIP	78	
RLA0_METMA	-----MAEERHHTHEIPQWKKDEIENIKELIQSHKVFQGMVIEGILATKIQIRRDLDKV-AVLKVSRTLTTERALNQLG--ESIP	78	
RLA0_ARCFU	-----MAAVRGS--PPEYKVRAVEEIKRMISSEKPVVAIVSFNVPAGOMQKIRREFRGK-AEIKVVKNTLLEALDALG--GDL	75	
RLA0_METKA	MAVKAKGQPPSGYEPKVAEWEKKREVEKELKELMDEYENGLVDLEGIPAPOLQEIIRAKLRERDTFIIRMSRNTLMRIAEEKLDER--PELE	88	
RLA0_METTH	-----MAHVAEWKKKEVQELHDLIKGYEVVGIANLADIPARQLOKMRQTLRDS-ALIRMSKKTLLISLAKAGREL--ENVD	74	
RLA0_METTL	-----MITAESEHKIAPWKIEEVNKLKELLKNGQIVALVDMMEVPARQLOEIRDKIR-GTMTLKMSRNTLIERAIKEVAEETGNPEFA	82	
RLA0_METVA	-----MIDAKSEHKIAPWKIEEVNKLKELLKNSANVIALIDMEVPAPVQLOEIRDKIR-DQMTLKMSRNTLIERAEEVAEETGNPEFA	82	
RLA0_METJA	-----METKVKAHVAPWKIEEVKTLKGLIKSKPVVAIVDMMDVPAPVQLOEIRDKIR-DKVKLRMSRNTLIERALKEAAEELNNPKLA	81	
RLA0_PYRAB	-----MAHVAEWKKKEVEEELANLIKSPVIALVDVSSMPAYPLSQMRRLIRENGGLLRVSRNTLIERAIAKKAQELGKPELE	77	
RLA0_PYRHO	-----MAHVAEWKKKEVEEELAKLIKSPVIALVDVSSMPAYPLSQMRRLIRENGGLLRVSRNTLIERAIAKKAQELGKPELE	77	
RLA0_PYRFU	-----MAHVAEWKKKEVEEELANLIKSPVIALVDVSSMPAYPLSQMRRLIRENGGLLRVSRNTLIERAIAKKAQELGKPELE	77	
RLA0_PYRKO	-----MAHVAEWKKKEVEEELANLIKSPVIALVDVAGVPAYPLSKMRDKLR-GKALLRVSRNTLIERAIAKKAQELGKPELE	76	
RLA0_HALMA	-----MSAESERKTEIPEWKQEEVDAIVEMIESYESVGVVNIAGIPSRQLODMRRDLHGT-AELRVSRNTLIERALDDVD--DGLE	79	
RLA0_HALVO	-----MSESEVRQTEIPEWKQEEVDELVDIESYESVGVVNVAGIPSRQLODMRRDLHGS-AAVRMSRNTLVNRALEVN--DGFE	79	
RLA0_HALSA	-----MSAEEQRTTEIPEWKQEEVDELVDLETYDSVGVVNVGTGIPSKQLODMRRGLHGO-AALRMSRNTLLVRALEEAG--DGLD	79	
RLA0_THEAC	-----MKEVSQKKELVNETQRIKASRSVAIVDTAGIRTRIQIDIRGNRKG-INLKVIKKTLLFKALENLGD--EKLS	72	
RLA0_THEVO	-----MRKINPKKKEIVSELAQDITKSKAVAIVDIKCVTRQMODIRAKNRDK-VKIKVVKKTLLFKALDSIND--EKLT	72	
RLA0_PICTO	-----MTEPAQWKIDIFVKNLENEINSRKVAAIVSIKGLRNNEFOKIRNSIRDK-ARIKVSRRARLLRLAIENTGK--NNIV	72	
ruler	1.....10.....20.....30.....40.....50.....60.....70.....80.....90		

Scheimpfliz

Halobacterium marismortui

ersten 90 Pos.

Edit-Distanz

$u = \text{TGCATAT}$, $v = \text{ATCCGAT}$

$v = \text{TGCATAT}$

↓ Letztes T löschen

TGCAT

↓ letztes A löschen

TGCAT

↓ vorne A einfügen

ATGCAT

↓ ersetze G durch C an Pos.3

ATCCAT

↓ vorm letzten A ein G einfügen

$\text{ATCCGAT} = u$

Edit-Distanz ist ≤ 5

Edit-Distanz II

$u = \text{TGCATAT}$, $v = \text{ATCCGAT}$

$v = \text{TGCATAT}$

↓ vorn A einfügen

A T G C A T A T

↓ lösche T an Pos. 6

A T G C A A T

↓ ersetze A durch G an Pos. 5

A T G C G A T

↓ ersetze G durch C an Pos. 3

A T C C G A T = v

Edit-Distanz ist ≤ 4

→ optimal?