

Supplementary file 2

Acaryochloris marina MBIC11017 uid58167 TnpPred annotation in genbank format (.gbk)

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LOCUS          NC_009925                0 bp    DNA    linear    UNK
ACCESSION      unknown
COMMENT        This looks like a good IS fragment prediction
FEATURES       Location/Qualifiers
    source      1..6503724
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                /db_xref="taxon:329726"
                /organism="Acaryochloris marina MBIC11017"
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                VQRLFEXXVKLSRYXsVNTQTLDRtXRAMPTAYDSDLTTLQWELLEPLIPAAKP-GGR
                PRT-TDMLSVLNAlFYLVVTGCQWRQLPHDFPCWSTVYSYFRRWRDDGTWVHINEHLR
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                length is 280aa with 33 gaps, 7 stops, absolute frame=
                Plus1"
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                /note="IS5_IS1031 e-value= 1.9e-108 complete sequence hit
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                length is 284aa with 14 gaps, 2 stops, absolute frame=
                Plus1"
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                /evidence=predicted
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                SAAICDAQSVKVGNGPRCH-SIGFDGgkmvKGRKRHVLDTLGLVLMVMVTAANISDQR
                -GAKILFWKARRQGaslSRLVRIWADAGYQGQALMKWVMDRFQYVLEVVKRSDNLAGF
                QVVKRWIVERTFGWLLWSRRLNKDYEVLTTRTAEALAYVAMIRLMVRRLAQEhXNFSN
                SLS"
                /note="IS5_IS1031 e-value= 1.3e-110 fragment hit
                coverage= 93.56%, between model( 295 aa) positions 20;
                295 length is 270aa with 9 gaps, 1 stops, absolute frame=
                Plus1"
    CDS         19537..19776
                /colour="255 0 0"
                /evidence=predicted
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                CQWRQLPHDFPCWSTVYSYFRRWRDDGTWVHINEHLRM"
                /note="IS5_IS427 e-value= 3.3e-18 fragment hit coverage=
                27.70%, between model( 296 aa) positions 125; 206 length
                is 80aa with 2 gaps, 0 stops, absolute frame= Plus1"
    CDS         57724..58665
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 RRTWRKLHLSVDESTGEILTGVVTTNDVQDGEVFE DLLEGIDD-----EIEQVSAD-G
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 length is 314aa with 37 gaps, 1 stops, absolute frame=
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 CDS 57724..58665
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 /evidence=predicted
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 AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHGN C--NApphpRDQ
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 /evidence=predicted
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 ATFHKGGQIQELVEKAG--CEVWYLPPYSPDLNKIERSWSWIKSRIR"
 /note="IS630 e-value= 1.1e-13 fragment hit coverage=
 38.83%, between model(376 aa) positions 188; 333 length
 is 129aa with 20 gaps, 0 stops, absolute frame= Plus1"
 CDS 439435..439710
 /colour="255 0 0"
 /evidence=predicted
 /translation="KQQLQLP-VTLARIDRFDLLFLDNVGDVKKLDFETS VLVFEXIAH
 QYKRCSFLIIANYPFSEWDIIFR-DSMMMVAVDRLVHHALIIIEIKAESY"
 /note="IS21_ORF2 e-value= 4.1e-16 fragment hit coverage=
 36.43%, between model(258 aa) positions 148; 241 length
 is 92aa with 2 gaps, 1 stops, absolute frame= Plus1"
 CDS 470638..470901
 /colour="255 0 0"
 /evidence=predicted
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 TLYYRRqISSETIQITILQSHAEGSSLRGLSRITGVAFNTCVSVIR"
 /note="IS1_ORF1 e-value= 4.6e-14 fragment hit coverage=
 36.40%, between model(239 aa) positions 1; 87 length is
 88aa with 1 gaps, 0 stops, absolute frame= Plus1"
 CDS 689482..689622
 /colour="255 0 0"
 /evidence=predicted
 /translation="SEYIHKSHNVSVLLYHLVFPKYRRALF----DES VDEVLR-NI
 CMDIENRF"
 /note="IS200 e-value= 3.9e-06 fragment hit coverage=
 33.77%, between model(154 aa) positions 1; 52 length is
 47aa with 5 gaps, 0 stops, absolute frame= Plus1"

CDS 689482..689604
/colour="255 0 0"
/evidence=predicted
/translation="SEYIHKSHNVSVLLYHLVFPKAYRRALFDES-----VDEVLRNICM"
/note="IS200_IS605 e-value= 3.1e-06 fragment hit coverage= 30.07%, between model(153 aa) positions 1; 46 length is 41aa with 5 gaps, 0 stops, absolute frame= Plus1"

CDS 689875..690138
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/note="IS1_ORF1 e-value= 1.7e-15 fragment hit coverage= 36.40%, between model(239 aa) positions 1; 87 length is 88aa with 2 gaps, 0 stops, absolute frame= Plus1"

CDS 850231..851292
/colour="255 0 0"
/evidence=predicted
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/note="IS3_IS150_ORF2 e-value= 1.7e-22 complete sequence hit coverage= 100%, between model(389 aa) positions 1; 389 length is 354aa with 39 gaps, 5 stops, absolute frame= Plus1"

CDS 850270..851316
/colour="255 0 0"
/evidence=predicted
/translation="HPYPALXPPQ--PLAQGI--SSARQXHFEXEQRRQRXSENCVSRASSRPIDAAiRDRKKSlnVLTpNQRQMVRLQODY--SIRQICQVLNYPRSQVYYH ARGQPDESELKAAIAGVAGAYPTYGYRRI TAQLQRQGYCVNHKRVARLMRQIGIMAKT KV-KRKRttnsehsfpRYGNRVLNLSIDHPEQVWVADITYIRLQ--QEFVYLAVVMDV FTRAIRGWHLsrHIDQQLTLRALNKALE-RATPEIHHS DQGVQYAAAAYMQLLQHQV QISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYRNFTEAYEHIEQFLEDVYMHKRIHS SLGYLTPCEYEQQWRQNNHYCMNK"
/note="IS3_IS407_ORF2 e-value= 6.3e-13 complete sequence hit coverage= 100%, between model(344 aa) positions 1; 344 length is 349aa with 10 gaps, 4 stops, absolute frame= Plus1"

CDS 850405..851289
/colour="255 0 0"
/evidence=predicted
/translation="PIDAAIRDRKKSlnVLTpNQRQMVRLQODYSIRQICQVLNYP RSQVYYHARGQPDESELKAAIAGV-AGAYPTYGYRRI TAQLQRQGYCVNHKRVARLMR QIGIMAKTKVK----RKRTTNSEHSF-PRYGNRvlnLSIDHPEQVWVADITYIRL--Q QEFVYLAVVMDVFTRAIRGWHLsrHIDQQLTLRALNKALER----ATPEIHHS DQGVQ YAAAAYMQLLQHQVQISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYRNF--EAYE HIEQFLEDVYMHKRIHSSLGYLTPCEYEQQWRQ"
/note="IS3_IS150_ORF1 e-value= 4.3e-49 complete sequence hit coverage= 100%, between model(306 aa) positions 1; 306 length is 295aa with 14 gaps, 0 stops, absolute frame= Plus1"

CDS 850441..851325

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/colour="255 0 0"
/evidence=predicted
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VNHKRVARLMRQIGIMAKTKVKRKR-TTNSEHSFPRYGnRVLNLSIDHPEQVWVADIT
YI-----RLQO-----EFVYLAVVMDVFTRAIRGWHLRSH----IDQ
QLTLRALNKALERAT-PEIHSDQGVQYAAA----AYMQLLQHQVQISMAEVGQAWQ
NGYAERLMRTIKEEEVDLSD---YRNFTEAYEHIEQFLEDvYMHKRIHSSLGYLTPCE
YEQQWRQONNHYCMNKEDS"
/note="IS481 e-value= 2.9e-08 complete sequence hit
coverage= 100%, between model( 351 aa) positions 1; 351
length is 295aa with 58 gaps, 0 stops, absolute frame=
Plus1"
CDS      850441..851325
/colour="255 0 0"
/evidence=predicted
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LMRQIGIMAKTKVKRKRRTTNSEHSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQOEF
VYLAVVMDVFTRAIRGWHLRSHIDQQLTLRALNKALERATPE-----IHSDQGV
QYAAAAYMQLLQHQVQISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYrnFTEAYEH
IEQFLEDV--YMHKRIHSSLGYLTPCEYEQQWRQONNHYCMNKEDS"
/note="IS3_IS51_ORF2      e-value= 1.6e-26 complete sequence
hit coverage= 100%, between model( 317 aa) positions 1;
317 length is 295aa with 27 gaps, 0 stops, absolute
frame= Plus1"
CDS      850447..850701
/colour="255 0 0"
/evidence=predicted
/translation="VLTPNQKROMVRQLQODY--SIROICQVLNYPQRSQVYYHARGOP
DESELKAAIAGVAGAYPTYGYRRITAQLQRQGYCVNHKRVARL"
/note="IS3_IS407_ORF2      e-value= 1.2e-17 fragment hit
coverage= 25.29%, between model( 344 aa) positions 60;
146 length is 85aa with 2 gaps, 0 stops, absolute frame=
Plus1"
CDS      850450..851301
/colour="255 0 0"
/evidence=predicted
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RQIGIM--AKTKVKRK-RttNSEHSfprYGNRVLNLSIDHPEQVWVAD-ITYIRLQOE
FVYLAVVMDVFTRAIRGWH-----LSRHIDQQLTLRALNK---ALERATPEIHH-SD
QGVQYAAAAYMQLLQHQVQISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYRNFTEA
YEHIEQFLEDvYMHKRIHSSLGYLTPCEYEQQWRQONNH"
/note="IS3_IS2_ORF2      e-value= 2.2e-08 complete sequence
hit coverage= 100%, between model( 302 aa) positions 1;
302 length is 284aa with 31 gaps, 0 stops, absolute
frame= Plus1"
CDS      850465..851292
/colour="255 0 0"
/evidence=predicted
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AIRGWHLRSHIDQQLTLRALNKALERAT---PEIHSS-----DQGVQYAAAAYMQLLQ
QHQVQISMAEVGQAWQNGYAERLMRTIKEEEVD--LSDYRNFTEAYEHIEQFLEDVYM
HKRIHSSLGYLTPCEYEQQWRQO"
/note="IS3_IS150_ORF2      e-value= 2.2e-47 fragment hit
coverage= 76.09%, between model( 389 aa) positions 94;
389 length is 276aa with 23 gaps, 0 stops, absolute

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frame= Plus1"
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IRGWHLsrHIDQQLT-LRALNKALERATPE-----IHSDQGVQYAAAAYMQLLQQ
HQVQISMAEVGQAWQNGYAERLMRTIKKEEVDL---S-DYRNFTEAYEHIEQFLEDVY
MhkRIHSSLGylTPCEYEQQWRQONNHycMnk"
         /note="IS3_IS51_ORF1      e-value= 6.3e-51 complete sequence
hit coverage= 100%, between model( 307 aa) positions 1;
307 length is 283aa with 25 gaps, 0 stops, absolute
frame= Plus1"
CDS      850468..851316
         /colour="255 0 0"
         /evidence=predicted
         /translation="RQMVRQLQODYSIRQICQVLNYPQRSQVYYHA-----RG
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IRGWHLsrHIDQQLT-LRALNKALERATPE-----IHSDQGVQYAAAAYMQLLQQ
HQVQISMAEVGQAWQNGYAERLMRTIKKEEVDL---S-DYRNFTEAYEHIEQFLEDVY
MhkRIHSSLGylTPCEYEQQWRQONNHycMnk"
         /note="IS3_IS51_ORF1      e-value= 8.1e-53 complete sequence
hit coverage= 100%, between model( 307 aa) positions 1;
307 length is 283aa with 25 gaps, 0 stops, absolute
frame= Plus1"
CDS      850471..851286
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         /evidence=predicted
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HLSRHIDQQLTLRALNKALERA-TPE--IHSDQGVQYAAAAYMQLLQQHQVQISMAE
VGQAWQNGYAERLMRTIK-EEEVDL-SDYRNFTEAYEHIEQFLEDVYMhkRIHSSLGY
LTPCEYEQQWR"
         /note="IS3_IS3_ORF1      e-value= 9.5e-54 complete sequence
hit coverage= 100%, between model( 286 aa) positions 1;
286 length is 272aa with 15 gaps, 0 stops, absolute
frame= Plus1"
CDS      850471..851286
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         /evidence=predicted
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HLSRHIDQQLTLRALNKALERA-TPE--IHSDQGVQYAAAAYMQLLQQHQVQISMAE
VGQAWQNGYAERLMRTIK-EEEVDL-SDYRNFTEAYEHIEQFLEDVYMhkRIHSSLGY
LTPCEYEQQWR"
         /note="IS3_IS3_ORF1      e-value= 2.5e-54 complete sequence
hit coverage= 100%, between model( 286 aa) positions 1;
286 length is 272aa with 15 gaps, 0 stops, absolute
frame= Plus1"
CDS      850474..851289
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HSF-PRYGNRvlnLSIDHPEQVWVADITYIRL--QQEFVYLAVVMDVFTRAIRGWHLs
RHIDQQLTLRALNKALER----ATPEIHSDQGVQYAAAAYMQLLQQHQVQISMAEVG

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QAWQNGYAERLMRTIKEEEVDLSDYRNFT--EAYEHIEQFLEDVYMHKRIHSSLGYLT
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/note="IS3_IS150_ORF1 e-value= 6.3e-50 fragment hit
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306 length is 272aa with 14 gaps, 0 stops, absolute
frame= Plus1"
CDS 850483..851298
/colour="255 0 0"
/evidence=predicted
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SRHIDQQLTLRALNKALER----ATPE---IHHS DQGVQYAAAAAYMQLLQHQVQISM
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LTPCEYEQQWRQNN"

/note="IS3_IS3_ORF2 e-value= 1.2e-64 complete sequence
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288 length is 272aa with 19 gaps, 0 stops, absolute
frame= Plus1"
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/evidence=predicted
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SRHIDQQLTLRALNKALER----ATPE---IHHS DQGVQYAAAAAYMQLLQHQVQISM
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LTPCEYEQQWRQNN"

/note="IS3_IS3_ORF2 e-value= 3.3e-65 complete sequence
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frame= Plus1"
CDS 850552..850710
/colour="255 0 0"
/evidence=predicted
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-CVNHKRVARLMRQ"

/note="IS3_IS2_ORF2 e-value= 9.1e-09 fragment hit
coverage= 18.87%, between model(302 aa) positions 48;
104 length is 53aa with 5 gaps, 0 stops, absolute frame=
Plus1"
CDS 850618..851301
/colour="255 0 0"
/evidence=predicted
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ISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYrnFT EAYEHIEQFLEDV--YMHKRIH
SSLGYLTPCEYEQQWRQNNH"

/note="IS3_IS51_ORF2 e-value= 1.9e-38 fragment hit
coverage= 74.76%, between model(317 aa) positions 73;
309 length is 228aa with 11 gaps, 0 stops, absolute
frame= Plus1"
CDS 943111..944052
/colour="255 0 0"
/evidence=predicted
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RRTWRKLHLSVDESTGEILTGVVTTNDVQDGEVFEDLLEGIDD-----EIEQVSAD-G

AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHNC--NApphpRDQ
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 coverage= 100%, between model(347 aa) positions 1; 347
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 Plus1"
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 AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHNC--NApphpRDQ
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 Plus1"
 CDS 1300873..1301259
 /colour="255 0 0"
 /evidence=predicted
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 ATFHKGGQIQELVEKAG--CEVWYLPPYSPDLNKIERSWSWIKSRIR"
 /note="IS630 e-value= 1.1e-13 fragment hit coverage=
 38.83%, between model(376 aa) positions 188; 333 length
 is 129aa with 20 gaps, 0 stops, absolute frame= Plus1"
 CDS 1334545..1335405
 /colour="255 0 0"
 /evidence=predicted
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 VDTMGLLIGATVHSARRSDHQ-GMILLGLWFSAFWQSIQLIWDQTFGGQAFTAWFQK
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 /note="IS5_IS1031 e-value= 2.7e-109 complete sequence hit
 coverage= 100%, between model(295 aa) positions 1; 295
 length is 287aa with 10 gaps, 2 stops, absolute frame=
 Plus1"
 CDS 1334545..1335384
 /colour="255 0 0"
 /evidence=predicted
 /translation="IQVELRGSIHXP1NLKMRHPYDSDLTLDQWELLRPLLPAKAKSG
 -----GRPRRVNLLAVVNAIFYLLRSGCPWRL--IPHD
 FPAWQTVYTYFRQWEADGTWERLNRALREKLRIQAG---RHRHPSAACVDSQSVKTAG
 A-----
 -----AQEKGFDDGGKVKGRKRT
 ILVDTMGLLIGA-----TVHSARRSDHQGMILLGLWFSAFWQSIQLIWI
 TDQTFGGQAFTAWFQKTFGWTMEVVKRPEEQGFVLP RRWVVERTFAWFGHYRRLSK
 DYEYLP TTTSEMMLYAA MVNLMLKRLAXIFS"
 /note="IS5_IS5 e-value= 6.1e-15 complete sequence hit
 coverage= 100%, between model(422 aa) positions 1; 422
 length is 280aa with 142 gaps, 2 stops, absolute frame=
 Plus1"
 CDS 1334599..1335378
 /colour="255 0 0"

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/evidence=predicted
/translation="RHPYDSDLTLDQWELLRPLLPKAK-----SGGRPRRVNLLAV
VNAIFYLLRSGCPWRLIPHDFPAWQTVYTYFRQWEADGTWERLNRALREKLRIQAGRH
RHPSAACVDSQS SVKTAGAAQE--KGFDDGGKKVKGRKRTILVDTMGLLIGATVHSARRS
DHQ-GMILLGLWFSAFWQSIQLIWTDQTFGGQAF TAWFQKTFGW TMEVVKRPEEQQGF
EVLPRRWVVERTFAWFGHYRRLSKDYEYLP T TSEMMLYAAMVNLMLKRLAXI"
/note="IS5_IS1031 e-value= 3.5e-110 fragment hit
coverage= 91.53%, between model( 295 aa) positions 17;
286 length is 260aa with 10 gaps, 1 stops, absolute
frame= Plus1"
CDS 1334629..1334862
/colour="255 0 0"
/evidence=predicted
/translation="DQWELLRPLLP--KAKSGGRPRRVNLLAVVNAIFYLLRSGCPWR
LIPHDFPAWQTVYTYFRQWEADGTWERLNRALREKL"
/note="IS5_IS427 e-value= 7.9e-16 fragment hit coverage=
27.03%, between model( 296 aa) positions 129; 208 length
is 78aa with 2 gaps, 0 stops, absolute frame= Plus1"
CDS 1334704..1334931
/colour="255 0 0"
/evidence=predicted
/translation="AVVNAIFYLLRSGCPWRL--IPHDFPAWQTVYTYFRQWEADGTW
ERLNRALREKLRIQAG---RHRHPSAACVDSQS SVKTA"
/note="IS5_IS5 e-value= 7.9e-09 fragment hit coverage=
19.19%, between model( 422 aa) positions 79; 159 length
is 76aa with 5 gaps, 0 stops, absolute frame= Plus1"
CDS 1334932..1335384
/colour="255 0 0"
/evidence=predicted
/translation="GAAQEKGFDDGGKKVKGRKRTILVDTMGLLIGA-----
---TVHSARRSDHQGMILLGLWFSAFWQSIQLIWTDQTFGGQAF TAWFQKTFGW TMEV
VKRPEEQQGF EVLPRRWVVERTFAWFGHYRRLSKDYEYLP T TSEMMLYAAMVNLMLKR
LAXIFS"
/note="IS5_IS5 e-value= 1.2e-15 fragment hit coverage=
39.34%, between model( 422 aa) positions 257; 422 length
is 151aa with 15 gaps, 1 stops, absolute frame= Plus1"
CDS 1474789..1475553
/colour="255 0 0"
/evidence=predicted
/translation="-----TGVYKQTFkrMLHAWHTHHLGRSN--AGRPPKLCRPDQL
LVALQYWREYR TYFH IAGDWEVSESTVCRIVHQVETALMNSGLFRLPGQKSLLOQFER
PDVVVMDVTETPIERPQKRQKAYYSGKKRDIPS NARLSLTAT--LXRLSV-----
XALAQAVGMIFr s s r f q v S I S I Q I P R V C K I A D I K G L O P T --TPTAM----FLSRSHNT
VNXLPCSESI T V l x v k n E W A l n t l N R S L K I F R I L S E R Y R N R R R R Y T L R C N L I A A L Y N H
EL"
/note="IS5_ISL2 e-value= 2.2e-49 complete sequence hit
coverage= 100%, between model( 260 aa) positions 1; 260
length is 255aa with 23 gaps, 3 stops, absolute frame=
Plus1"
CDS 1474852..1475160
/colour="255 0 0"
/evidence=predicted
/translation="RSNAGRPPKLCRPDQLLVALQYWREYR TYFH IAGDWEVSESTVC
RIVHQVETALMNSGLFRLPGQKSLLOQFERPDVVVMDVTETPIERPQKRQKAYYSGKK
R"
/note="IS5_ISL2 e-value= 1.5e-44 fragment hit coverage=
39.62%, between model( 260 aa) positions 27; 129 length
is 103aa with 0 gaps, 0 stops, absolute frame= Plus1"
CDS 1475446..1475553
/colour="255 0 0"

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/evidence=predicted
/translation="NRSLKIFRILSERYRNRYYYYTLRCNLIAALYNHEL"
/note="IS5_ISL2 e-value= 1.1e-16 fragment hit coverage=
13.85%, between model( 260 aa) positions 225; 260 length
is 36aa with 0 gaps, 0 stops, absolute frame= Plus1"
CDS 1499707..1499970
/colour="255 0 0"
/evidence=predicted
/translation="LFYFLMQCPLCGHPK-THKHGKTSKGSQRYRCPHCQQTFS-Etf
DTLCYRRQISPETIQITILQAHVEGSSLRGLSRITGVAYNTCVSVVR"
/note="IS1_ORF1 e-value= 1.7e-15 fragment hit coverage=
36.40%, between model( 239 aa) positions 1; 87 length is
88aa with 2 gaps, 0 stops, absolute frame= Plus1"
CDS 1585042..1585257
/colour="255 0 0"
/evidence=predicted
/translation="REIHEAIGVSIRTIERVMRFVEEG---LEAAINQRsGAGRKRK
IQGEQEAHLIALRCSEPPVG----HARWTLRLLAD"
/note="IS630 e-value= 9.9e-08 fragment hit coverage=
20.74%, between model( 376 aa) positions 44; 121 length
is 72aa with 7 gaps, 0 stops, absolute frame= Plus1"
CDS 1602370..1602585
/colour="255 0 0"
/evidence=predicted
/translation="REIHEAIGVSIRTIERVMRFVEEG---LEAAINQRsGAGRKRK
IQGEQEAHLIALRCSEPPVG----HARWTLRLLAD"
/note="IS630 e-value= 9.9e-08 fragment hit coverage=
20.74%, between model( 376 aa) positions 44; 121 length
is 72aa with 7 gaps, 0 stops, absolute frame= Plus1"
CDS 2373475..2374293
/colour="255 0 0"
/evidence=predicted
/translation="-IEYPQFLQLLEQAEKHNERKaeiexhksRVNAK-GGGRKPLL
SVAEEVCLCLFYLRHYPTFEVLGLQFGVSKSEANDTVHYWLSMLRVLL-----PASLL
EQVDSNPsdyaIVqewltqfqlIVDTFEQARERPIdnDEQRSYFSGKKQOHTFKSQIV
TLPGGKDIVDAIAGkKGPTSDISVRFREHQSQFAPGQFGDGKAYVGAQNVO----TPH
KKPRGKELTPKQKAQNKKfsSTRRIFVEHTIRLVRIFRVAQERFRLRHDTYEQVILTV
CGLVRLRL"
/note="IS5_ISL2 e-value= 1.6e-11 complete sequence hit
coverage= 100%, between model( 260 aa) positions 1; 260
length is 273aa with 11 gaps, 0 stops, absolute frame=
Plus1"
CDS 2373877..2374236
/colour="255 0 0"
/evidence=predicted
/translation="QRSYFSGKKQOHTFKSQIVTLPGGKDIVDAIAGkKGPTSDISVF
REHQSQFAPGQFGDGKAYVGAQNVO----TPHKKPRGKELTPKQKAQNKKfsSTRRI
FVEHTIRLVRIFRVAQERFRLR"
/note="IS5_ISL2 e-value= 8.7e-11 fragment hit coverage=
46.92%, between model( 260 aa) positions 120; 241 length
is 120aa with 4 gaps, 0 stops, absolute frame= Plus1"
CDS 2559835..2560116
/colour="255 0 0"
/evidence=predicted
/translation="SMCEPYCQSEK-ILKRGFDSLqdgTLVQRYQCKDCNRRFN-ERT
GTPMARLRtasSVVSYAIKARTEGMGVRsAGRTFGKSHTTIMRWEKRLADQA"
/note="IS1_ORF1 e-value= 3.2e-11 fragment hit coverage=
37.24%, between model( 239 aa) positions 5; 93 length is
94aa with 2 gaps, 0 stops, absolute frame= Plus1"
CDS 2630473..2630631

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/colour="255 0 0"
/evidence=predicted
/translation="HHPHPRVQRRMEVLYLKSQGLPHAQICQLCQISRPTLAKTLRLY
QGGIEGLK"
/note="IS481 e-value= 1.1e-08 fragment hit coverage=
15.10%, between model( 351 aa) positions 1; 53 length is
53aa with 0 gaps, 0 stops, absolute frame= Plus1"
CDS 2982304..2983041
/colour="255 0 0"
/evidence=predicted
/translation="-----TGVYKQTF-KRMLHAWHTYHLSHSNAERPPKLCRPDQLL
VALQYWREYRTYFHIAGDWDVSESTVCRIVQQVESALMNSGLFRLPGKKHLIQGFERP
DVVVMDVTETPIERPQKGQKAYYSGKKRDIPSNARLSLTVALXRLSALT-----
-LAKVVGMIFrssrfqvSTSIQIprVCKIADiKGLQPI-----TPIAM----FLSRSH
NTVNXLPSSESTTVLXVRNEWALNTLIAAXRFSEFCRSAIVIVVVVATRCGVTX"
/note="IS5_ISL2 e-value= 2.8e-20 complete sequence hit
coverage= 100%, between model( 260 aa) positions 1; 260
length is 246aa with 25 gaps, 5 stops, absolute frame=
Plus1"
CDS 2982364..2982675
/colour="255 0 0"
/evidence=predicted
/translation="SHSNAERPPKLCRPDQLLVALQYWREYRTYFHIAGDWDVSESTV
CRIVQQVESALMNSGLFRLPGKKHLIQGFERPQKGQKAYYSGK
KR"
/note="IS5_ISL2 e-value= 1.3e-41 fragment hit coverage=
40%, between model( 260 aa) positions 26; 129 length is
104aa with 0 gaps, 0 stops, absolute frame= Plus1"
CDS 3974686..3975072
/colour="255 0 0"
/evidence=predicted
/translation="YADESGMDHRDEYDY-AYGPKGE-----RVYA-LKTG-
RRSGRVNMIAALRAKQL--MAPFTIEGACNRTVFELwLERCLIPvIKPGQKLVII--DN
ATFHKGGQIQELVEKAG--CEVWYLPPYSPDLNKIERSWSWIKSRIR"
/note="IS630 e-value= 1.1e-13 fragment hit coverage=
38.83%, between model( 376 aa) positions 188; 333 length
is 129aa with 20 gaps, 0 stops, absolute frame= Plus1"
CDS 3975325..3976020
/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMIIsDIKRKSLPAIARAVGLENHQSLHHLFSESPWVAS
hLSDkRLDIILKILDGRRLILLID-----ETGDCKKKGKSTDYVVKR
QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY"
/note="IS4 e-value= 4.7e-14 fragment hit coverage=
51.23%, between model( 486 aa) positions 1; 249 length is
232aa with 27 gaps, 0 stops, absolute frame= Plus1"
CDS 3975325..3976452
/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMIIsDIKRKSLPAIARAVGLENHQSLHHLFSESPWVAS
hLSDkRLDIILKILDGRRLILLID-----ETGDCKKKGKSTDYVVKR
QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
AEQAVFAEPWQSFERTFSNGT-----TETRYR
QEIIYGQRHHQKRYWLLTTDPQTLPENSTS-----YVMAA
APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TLGWADFRMTHYEQIEKWEIVMSA
FLMVSLFADVFNDS-----CPVAHQHFAQHPwWDNQNG
WKNLLNNVR--LIIQPLIS----WNLLKRWLEVFPSRALKKGF"

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/note="IS4 e-value= 9.9e-07 complete sequence hit
coverage= 100%, between model( 486 aa) positions 1; 486
length is 376aa with 117 gaps, 0 stops, absolute frame=
Plus1"
CDS 4217206..4217592
/colour="255 0 0"
/evidence=predicted
/translation="YADESGMDHRDEYDY-AYGPKGE-----RVYA-LKTG-
RRSGRVNMIAALRAKQL--MAPFTIEGACNRTVFELwLERCLIPvlKPGQKLVI--DN
ATFHKGQIQELVEKAG--CEVWYLPYPSPDLNKIERSWSWIKSRIR"
/note="IS630 e-value= 1.1e-13 fragment hit coverage=
38.83%, between model( 376 aa) positions 188; 333 length
is 129aa with 20 gaps, 0 stops, absolute frame= Plus1"
CDS 4225801..4226796
/colour="255 0 0"
/evidence=predicted
/translation="CIAVAAILRRTXTREVFHFSFCVMPKIYSydlRCKVIDAIeLDGM
RPSEASELFHIRRNTINQWQHLKAETG-----DLHPKP-VHCPDHSKIK-----
DWDKFRAFAYKHRHKTQAQMAQLWDGE----ISERTISRALQONIGFT-RKKTYGYR--
ERD--EHKR----AAFIKRLSTVDP-DDIVYADESGMDHRDEYDY-AYGPKGE-----
-----RVYA-LKSG-TRKGRVNMIAALRAKQL--MAPFTIEGACNRTVFEVwLERCL
IPMLKPGQKLVI--DNATFHKAGRIQELVEKAG--CEVWYLPYPSPDLNKIERSWSWI
K--SRIRHQLDHFGSLREAMEHVLHLTSXIEWRLLXNKLCNNLKRIIL"
/note="IS630 e-value= 1.2e-10 complete sequence hit
coverage= 100%, between model( 376 aa) positions 1; 376
length is 332aa with 50 gaps, 3 stops, absolute frame=
Plus1"
CDS 4226083..4226673
/colour="255 0 0"
/evidence=predicted
/translation="AFAYKHRHKTQAQMAQLWDGEISERTISRALQONIGFT-RKKTYG
YR--ERD--EHKR----AAFIKRLSTVDP-DDIVYADESGMDHRDEYDY-AYGPKGE-
-----RVYA-LKSG-TRKGRVNMIAALRAKQL--MAPFTIEGACNRTVFEVwL
ERCLIPMLKPGQKLVI--DNATFHKAGRIQELVEKAG--CEVWYLPYPSPDLNKIERS
WSWIKSRIR"
/note="IS630 e-value= 1.2e-14 fragment hit coverage=
59.57%, between model( 376 aa) positions 110; 333 length
is 197aa with 30 gaps, 0 stops, absolute frame= Plus1"
CDS 4227730..4228050
/colour="255 0 0"
/evidence=predicted
/translation="FPDAQQVHVVDNLNTHtpaalyKTFKPDEALRILS-RIQFHYT
PKHGSWLNMVFEFESALSROQLNRRIP-DIEKLRHEVTAWEQRRNWDKAMVNWLFTVD
DARTKLS"
/note="IS630 e-value= 3.3e-07 fragment hit coverage=
27.39%, between model( 376 aa) positions 274; 376 length
is 107aa with 2 gaps, 0 stops, absolute frame= Plus1"
CDS 5176546..5176935
/colour="255 0 0"
/evidence=predicted
/translation="FFMDESGFSLVPCIPY-GWQPIG-----TYL-EIPT
RSSKRLNVLGFLSRROGL--HAYTSEQTITSEVVShCIDTFFADV--ELPTVIVVDQA
PIHTSQsiyEMKAERWARG--ITLFELPSYSPHLNLIERLWQFMKYQWI"
/note="IS630 e-value= 6.5e-11 fragment hit coverage=
39.10%, between model( 376 aa) positions 187; 333 length
is 130aa with 21 gaps, 0 stops, absolute frame= Plus1"
CDS 5240533..5240919
/colour="255 0 0"
/evidence=predicted
/translation="YADESGMEHRDEYDY-AYGPKGE-----RAYA-LKSG-

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RRSGRVNMIAALRAKQL--MAPFTIEGACNRTVFEIWLercLIPMLKPGQKLVI--DN
ATFHKGGQIQELVEAAG--CEVWYLPPYSPDLNKIERSWSWIKSRIR"
/note="IS630 e-value= 4e-14 fragment hit coverage=
38.83%, between model(376 aa) positions 188; 333 length
is 129aa with 20 gaps, 0 stops, absolute frame= Plus1"
CDS 5297623..5297775
/colour="255 0 0"
/evidence=predicted
/translation="QLCLILDNNPTHKG-KMRSQLAIHLEqmgltqsiQVEFLYLPSY
SPKLNLVE"
/note="IS630 e-value= 4.3e-06 fragment hit coverage=
11.70%, between model(376 aa) positions 279; 322 length
is 51aa with 1 gaps, 0 stops, absolute frame= Plus1"
CDS 5359111..5359329
/colour="255 0 0"
/evidence=predicted
/translation="RIRFVYIPKHTSWLNQIECWFSILVRRLLIRRGNFTSKDDLQORI
LEFIEYFNHtMAKPFQWQFKGFQPRXLXLM"
/note="IS630 e-value= 4e-10 fragment hit coverage=
19.15%, between model(376 aa) positions 305; 376 length
is 73aa with 0 gaps, 1 stops, absolute frame= Plus1"
CDS 5359159..5359269
/colour="255 0 0"
/evidence=predicted
/translation="IECWFSILVRRLLIR--RGNFTSKDDLQORILEFIEYFNH"
/note="IS3_IS150_ORF2 e-value= 2e-08 fragment hit
coverage= 10.03%, between model(389 aa) positions 329;
367 length is 37aa with 2 gaps, 0 stops, absolute frame=
Plus1"
CDS 5666503..5666847
/colour="255 0 0"
/evidence=predicted
/translation="CGNANIMXYLY-----RNIKGEYMVELGgfrRYF
YELARHKESVIEEGHLPDHSVHKLLSIPPKYSVSNVVGIVKGVFISPEXA-----
-----IVGMRQAI-----SFGLEDILC-QQSAKMRKXSVDISG"
/note="IS605 e-value= 9.1e-06 complete sequence hit
coverage= 100%, between model(152 aa) positions 1; 152
length is 115aa with 40 gaps, 3 stops, absolute frame=
Plus1"
CDS 5666590..5666721
/colour="255 0 0"
/evidence=predicted
/translation="FYELARHKESVIEEGHLPDHSVHKLLSIPPKYSVSNVVGIVKGV
"
/note="IS200 e-value= 1.3e-14 fragment hit coverage=
28.57%, between model(154 aa) positions 41; 84 length is
44aa with 0 gaps, 0 stops, absolute frame= Plus1"
CDS 5666590..5666721
/colour="255 0 0"
/evidence=predicted
/translation="FYELARHKESVIEEGHLPDHSVHKLLSIPPKYSVSNVVGIVKGV
"
/note="IS200_IS605 e-value= 1.4e-14 fragment hit
coverage= 28.76%, between model(153 aa) positions 41; 84
length is 44aa with 0 gaps, 0 stops, absolute frame=
Plus1"
CDS 5666629..5666721
/colour="255 0 0"
/evidence=predicted
/translation="EGHLPDHSVHKLLSIPPKYSVSNVVGIVKGV"

/note="IS605 e-value= 2.2e-10 fragment hit coverage= 20.39%, between model(152 aa) positions 54; 84 length is 31aa with 0 gaps, 0 stops, absolute frame= Plus1"
 CDS 5747743..5747880
 /colour="255 0 0"
 /evidence=predicted
 /translation="WQTDGWEGYARQLPDE---VVHEVSKALTQRLERTNGIVRQQTGRWHRR"

/note="IS1_ORF2 e-value= 1.8e-11 fragment hit coverage= 20.68%, between model(237 aa) positions 164; 212 length is 46aa with 3 gaps, 0 stops, absolute frame= Plus1"
 CDS 5903662..5904156
 /colour="255 0 0"
 /evidence=predicted
 /translation="LEKAGIESKKKTYGYR--ERD--ETQR---QEFIERLKTKHA--HQIVYVDEAGIDNRADYPY-GYGPIG-----QRFYD-LKSG-KRTERVVSFIALKEGQL--FSPMTFEGSCNWLLEAWLQSLIPQLQPGdIIVI-DNASFHHGLSIEEIVAEAG--CEIWYLPYSYSPDLNKIERWWFVLKN"

/note="IS630 e-value= 4e-13 fragment hit coverage= 50.80%, between model(376 aa) positions 140; 330 length is 165aa with 28 gaps, 0 stops, absolute frame= Plus1"
 CDS 6055453..6056127
 /colour="255 0 0"
 /evidence=predicted
 /translation="SXGICMKCECGQH-IHKNGHRR-GKQNHICVTCGRQFL--STYSKRGYSDWTKRLCLRMVNGMGLKGIERVIGVAHTTVIHVVQVGVLLPDAYDPDD-----IP---QVGELDELETFVGKRNKVWIW-TVVDHFHPG--ILGWVVDHSAETFRPLWqaIVCWQCFWVSDGNPVYpgFIPEgDQIVSKTYMTRVEGENTRLRHYLARLHRKTLCSKSDMLKHSIRLL---IHYL"

/note="IS1_ORF1 e-value= 5.8e-42 complete sequence hit coverage= 100%, between model(239 aa) positions 1; 239 length is 225aa with 19 gaps, 1 stops, absolute frame= Plus1"
 CDS 6055453..6056127
 /colour="255 0 0"
 /evidence=predicted
 /translation="SXGICMKCECGQH-IHKNGHRR-GKQNHICVTCGRQFL--STYSKRGYSDWTKRLCLRMVNGMGLKGIERVIGVAHTTVIHVVQVGVLLPDAYDPDD-----IP---QVGELDELETFVGKRNKVWIW-TVVDHFHPG--ILGWVVDHSAETFRPLWqaIVCWQCFWVSDGNPVYpgFIPEgDQIVSKTYMTRVEGENTRLRHYLARLHRKTLCSKSDMLKHSIRLL---IHYL"

/note="IS1_ORF1 e-value= 3.3e-41 complete sequence hit coverage= 100%, between model(239 aa) positions 1; 239 length is 225aa with 19 gaps, 1 stops, absolute frame= Plus1"
 CDS 6055453..6056133
 /colour="255 0 0"
 /evidence=predicted
 /translation="SXGICMKCECGQH-IHKNGHRR-GKQNHICVTCGR---QFLSTYSKRGysdwTKRLCLRMVNGMGLKGIERVIGVAHTTVIHVVQV--GVLLPDAYDPDDIPQVGELDELETFVGKRNKVWIWTVVDHFHPGILGWVVDHSAETFRPLWQAIVCWQ-CFFWVSDGNPVYpgFIPEG----DQIVSKTYMTRVEGENTRLRHYLARLHRKTLCSKSDMLKHSIRLLI-HYLKF"

/note="IS1_ORF2 e-value= 3.9e-29 complete sequence hit coverage= 100%, between model(237 aa) positions 1; 237 length is 227aa with 14 gaps, 1 stops, absolute frame= Plus1"
 CDS 6055732..6056133
 /colour="255 0 0"
 /evidence=predicted

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/translacion="DPDDIPQVGELDELETFVGKKRNKVWIWTVVDHFHFGILGWVVG
DHAETFRPLWQAIVCWQ-CFFWVSDGNPVYPGFIPEG----DQIVSKTYMTRVEGEN
TRLRHYLARLHRKTLCSYKSVDMKHSIRLLI-HYLKF"
/note="IS1_ORF2 e-value= 8.3e-32 fragment hit coverage=
59.07%, between model( 237 aa) positions 98; 237 length
is 134aa with 6 gaps, 0 stops, absolute frame= Plus1"
CDS 6108877..6109140
/colour="255 0 0"
/evidence=predicted
/translacion="LFYFLMQCPLCGHPK-THKHGKTSKGSQRYRCPHCQQTFS-Etf
DTLCYRRQISPETIQITILQAHVEGSSLRGLSRITGVAYNTCVSVVR"
/note="IS1_ORF1 e-value= 1.7e-15 fragment hit coverage=
36.40%, between model( 239 aa) positions 1; 87 length is
88aa with 2 gaps, 0 stops, absolute frame= Plus1"
CDS 6307891..6308655
/colour="255 0 0"
/evidence=predicted
/translacion="SPYQHLSLYLKKLRLSHMLTHWESIESQA-MQENWSYAEFLAL
CETKAQRREQARLKRALTEARLPNA-KSFTNFDVSHCPQLNPAPLMQLAAdPGWLER
ENCLILGPSVGKTHLATGVSKKMLEFGKRVKFFAANALVQHLQQAQLQLQLH-PMLK
KLDYDILLVLDLGYCKKSEAETSVLFELIAHRYERKSLITANQPFQWDDIFT-DS
MMAVAIDRLIHHGLIIKIQADSYRRKSATQRTAQTQSPPO"
/note="IS21_ORF2 e-value= 7.2e-80 complete sequence hit
coverage= 100%, between model( 258 aa) positions 1; 258
length is 255aa with 4 gaps, 0 stops, absolute frame=
Plus1"
CDS 6307891..6308655
/colour="255 0 0"
/evidence=predicted
/translacion="SPYQHLSLYLKKLRLSHMLTHWESIESQA-MQENWSYAEFLAL
CETKAQRREQARLKRALTEARLPNA-KSFTNFDVSHCPQLNPAPLMQLAAdPGWLER
ENCLILGPSVGKTHLATGVSKKMLEFGKRVKFFAANALVQHLQQAQLQLQLH-PMLK
KLDYDILLVLDLGYCKKSEAETSVLFELIAHRYERKSLITANQPFQWDDIFT-DS
MMAVAIDRLIHHGLIIKIQADSYRRKSATQRTAQTQSPPO"
/note="IS21_ORF2 e-value= 1.9e-80 complete sequence hit
coverage= 100%, between model( 258 aa) positions 1; 258
length is 255aa with 4 gaps, 0 stops, absolute frame=
Plus1"
CDS 6335869..6336906
/colour="255 0 0"
/evidence=predicted
/translacion="PMIKIDFTAEEIQQLNYERYHHPHPRVQRRMEVLYLKSQGLSHT
QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQGPSLLNAHS-DSVRAYFEQH
PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRYRKGYPGKSSLP
-EKIEEQEQFRHTRLEPLLeeAQQRERLVFFVDAAHFVHRAYLGF-VWCITRI-----
-----FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL
DPV-IPISVILDNARYQKQLVTDFAEIVD--IELVYLPYSYSPHLNLIERLWRFVVRKE
CLYSKYADFPFAFKGAIQOCIDQCNGEHKAKLT'TLLSLKFQSFKK"
/note="IS630 e-value= 4.9e-24 complete sequence hit
coverage= 100%, between model( 376 aa) positions 1; 376
length is 346aa with 33 gaps, 0 stops, absolute frame=
Plus1"
CDS 6335869..6336906
/colour="255 0 0"
/evidence=predicted
/translacion="PMIKIDFTAEEIQQLNYERYHHPHPRVQRRMEVLYLKSQGLSHT
QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQGPSLLNAHS-DSVRAYFEQH
PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRYRKGYPGKSSLP
-EKIEEQEQFRHTRLEPLLeeAQQRERLVFFVDAAHFVHRAYLGF-VWCITRI-----
-----FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL

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DPV-IPISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVVRKE
CLYSKYYADFPFAFKGAIQQCIDQCNGEHKAKLTTLLSLKFQSFKK"
/note="IS630 e-value= 6.7e-25 complete sequence hit
coverage= 100%, between model(376 aa) positions 1; 376
length is 346aa with 33 gaps, 0 stops, absolute frame=
Plus1"

CDS 6335929..6336087
/colour="255 0 0"
/evidence=predicted
/translation="HHPHPRVQRRMEVLYLKSQGLSHTQICQLCQISRPTLAKTLRQY
QQGGIEGLK"
/note="IS481 e-value= 3.7e-09 fragment hit coverage=
15.10%, between model(351 aa) positions 1; 53 length is
53aa with 0 gaps, 0 stops, absolute frame= Plus1"

CDS 6483169..6483501
/colour="255 0 0"
/evidence=predicted
/translation="QRVKDRAAMIRLSHQGMYVEKIAALFQCNVRTARQTFHRWQQKG
---LGGLWDAPHPGAQRRWHPED-IEYLETCLRQEERTY-----NSQQLSRKLAKE
RNVHLSADRIRQILKRGXS"
/note="IS630 e-value= 6e-07 fragment hit coverage=
32.45%, between model(376 aa) positions 25; 146 length
is 111aa with 11 gaps, 1 stops, absolute frame= Plus1"

CDS 59159..60220
/colour="255 0 0"
/evidence=predicted
/translation="IVKRXKN-----EQCIVSHpYPALXPPQPLAQG---ISSA---
--RQXHFSESEQRQRXSENCVSRASSRPIDAAIRDRKKSlnVLTp--NQRQMVRL
QQDYSIRQICQVLNYPVSQVYYHARGQP-----DESELKAAIAGVAGAYP-TYGYRRI
TAQLQ---RQGYCVNHKRVARLMRQIGIMAKTKVK-RKRTTSEHSfprYGNRVLNLS
--IDHPEQVWVADITYIRLQ-QEFVYLAVVMDVFTRAIRGWHLsrHIDQQLTLRALNK
ALERAT---PEIHHS-----DQGVQYAAAAYMQLLQHQVQISMAEVGQAWQNGYAER
LMRTIKEEEVD--LSDYRNFTeAYEHIEQFLEDvYMHKRIHSSSLGylTPCEYEQQWRQ
Q"
/note="IS3_IS150_ORF2 e-value= 1.7e-22 complete sequence
hit coverage= 100%, between model(389 aa) positions 1;
389 length is 354aa with 39 gaps, 5 stops, absolute
frame= Plus2"

CDS 59198..60244
/colour="255 0 0"
/evidence=predicted
/translation="HPYPALXPPQ--PLAQGI--SSARQXHFSESEQRQRXSENCV
RASSRPIDAAiRDRKKSlnVLTpNQRQMVRLQODY--SIRQICQVLNYPVSQVYYH
ARGQPDESELKAAIAGVAGAYPTYGYRRI TAQLQRQGYCVNHKRVARLMRQIGIMAKT
KV-KRKRtTsehsfprYGNRVLNLSIDHPEQVWVADITYIRLQ--QEFVYLAVVMDV
FTRAIRGWHLsrHIDQQLTLRALNKALE-RATPEIHHS DQGVQYAAAAYMQLLQHQV
QISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYRNFTeAYEHIEQFLEDvYMHKRIHS
SLGylTPCEYEQQWRQNNHYCMNK"
/note="IS3_IS407_ORF2 e-value= 6.3e-13 complete sequence
hit coverage= 100%, between model(344 aa) positions 1;
344 length is 349aa with 10 gaps, 4 stops, absolute
frame= Plus2"

CDS 59333..60217
/colour="255 0 0"
/evidence=predicted
/translation="PIDAAIRDRKKSlnVLTpNQRQMVRLQODY SIRSIRQICQVLNYP
RSQVYYHARGQPDESELKAAIAGV-AGAYPTYGYRRI TAQLQRQGYCVNHKRVARLMR
QIGIMAKTKVK----RKRTTSEHSF-PRYGNRvlnLSIDHPEQVWVADITYIRL--Q
QEFVYLAVVMDVFTRAIRGWHLsrHIDQQLTLRALNKALER----ATPEIHHS DQGVQ
YAAAAYMQLLQHQVQISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYRNFT--EAYE

HIEQFLEDVYMHKRIHSSLGYLTPCEYEQQWRQ"
 /note="IS3_IS150_ORF1 e-value= 4.3e-49 complete sequence
 hit coverage= 100%, between model(306 aa) positions 1;
 306 length is 295aa with 14 gaps, 0 stops, absolute
 frame= Plus2"
 CDS 59369..60253
 /colour="255 0 0"
 /evidence=predicted
 /translation="LNVLTPNQKRMVRQLQOD-YSIRQICQVLNYPQRSQVYYHARGQ
 PD-----ESELKAAIAGVAGAYPTYGYRRITAOQLQRQGYC---
 VNHKRVARLMRQIGIMAKTKVKRKR-TTNSEHSFPRYGnRVLNLSIDHPEQVWVADIT
 YI-----RLOQ-----EFVYLAVVMDVFTRAIRGWHLRSR-----IDQ
 QLTLRALNKALERAT-PEIHSDQGVQYAAA----AYMQLLQHQVQISMAEVGQAWQ
 NGYAERLMRTIKEEEVDLSD---YRNFTEAYEHIEQFLEDvYMHKRIHSSLGYLTPCE
 YEQQWRQONNHCMNKEDS"
 /note="IS481 e-value= 2.9e-08 complete sequence hit
 coverage= 100%, between model(351 aa) positions 1; 351
 length is 295aa with 58 gaps, 0 stops, absolute frame=
 Plus2"
 CDS 59369..60253
 /colour="255 0 0"
 /evidence=predicted
 /translation="LNVLTPNQK-RQMVRLQqdYSIRQICQVLNYP---RSQVYYHA
 RgQPDESELKA--AIAGV-----AGA---YPTYGYRRITAOQLQRQGYCVNHKRVAR
 LMRQIGIMAKTKVKRKRRTTNSEHSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQOEF
 VYLAVVMDVFTRAIRGWHLRSRHIDQQLTLRALNKALERATPE-----IHSDQGV
 QYAAAAYMQLLQHQVQISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYrnFTEAYEH
 IEQFLEDV--YMHKRIHSSLGYLTPCEYEQQWRQONNHCMNKEDS"
 /note="IS3_IS51_ORF2 e-value= 1.6e-26 complete sequence
 hit coverage= 100%, between model(317 aa) positions 1;
 317 length is 295aa with 27 gaps, 0 stops, absolute
 frame= Plus2"
 CDS 59375..59629
 /colour="255 0 0"
 /evidence=predicted
 /translation="VLTPNQKRMVRQLQODY--SIRQICQVLNYPQRSQVYYHARGQP
 DESELKAAIAGVAGAYPTYGYRRITAOQLQRQGYCVNHKRVARL"
 /note="IS3_IS407_ORF2 e-value= 1.2e-17 fragment hit
 coverage= 25.29%, between model(344 aa) positions 60;
 146 length is 85aa with 2 gaps, 0 stops, absolute frame=
 Plus2"
 CDS 59378..60229
 /colour="255 0 0"
 /evidence=predicted
 /translation="LTPNQKRMVRQL-QQDYSIRQICQVLNYPQRSQVYYHARG-----
 -----QPDESELKAAIAGVAGAYPTYGYRRITAOQLQRQGY-----CVNHKRVARLM
 RQIGIM--AKTKVKRKR-RttsehsfprYGNRVLnlsIDHPEQVWVAD-ITYIRLQOE
 FVYLAVVMDVFTRAIRGWH-----LSRHIDQQLTLRALNK---ALERATPEIHHS-SD
 QGVQYAAAAYMQLLQHQVQISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYRNFTEA
 YEHEQFLEDvYMHKRIHSSLGYLTPCEYEQQWRQONNH"
 /note="IS3_IS2_ORF2 e-value= 2.2e-08 complete sequence
 hit coverage= 100%, between model(302 aa) positions 1;
 302 length is 284aa with 31 gaps, 0 stops, absolute
 frame= Plus2"
 CDS 59393..60220
 /colour="255 0 0"
 /evidence=predicted
 /translation="KRMVRQLQODYSIRQICQVLNYPQRSQVYYHARGQP-----DES
 ELKAAIAGVAGAYP-TYGYRRITAOQLQ---RQGYCVNHKRVARLMRQIGIMAKTKVK-
 RKRTTNSEHSfprYGNRVLNLS--IDHPEQVWVADITYIRLQ-QEFVYLAVVMDVFTR

AIRGWHLSRHIDQQLTLRALNKALERAT---PEIHHS-----DQGVQYAAAAYMQLLO
QHQVQISMAEVBQAWQNGYAERLMRTIKEEEVD--LSDYRNFTTEAYEHIEQFLEDVYM
HKRIHSSLGYLTPCEYEQQWRQQ"
/note="IS3_IS150_ORF2 e-value= 2.2e-47 fragment hit
coverage= 76.09%, between model(389 aa) positions 94;
389 length is 276aa with 23 gaps, 0 stops, absolute
frame= Plus2"
CDS 59396..60244
/colour="255 0 0"
/evidence=predicted
/translation="RQMVRLQDDYSIRQICQVLNYPRSQVYYHA-----RG
QPDEsELKAAIAGV-AGAYPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKV
KRKRRTTNSHFSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRA
IRGWHLSRHIDQQLT-LRALNKALERATPE-----IHHS DQGVQYAAAAYMQLLOQ
HQVQISMAEVBQAWQNGYAERLMRTIKEEEVDL---S-DYRNFTTEAYEHIEQFLEDVY
MHKRIHSSLGYLTPCEYEQQWRQQNNHYCMNK"
/note="IS3_IS51_ORF1 e-value= 8.1e-53 complete sequence
hit coverage= 100%, between model(307 aa) positions 1;
307 length is 283aa with 25 gaps, 0 stops, absolute
frame= Plus2"
CDS 59396..60244
/colour="255 0 0"
/evidence=predicted
/translation="RQMVRLQDDYSIRQICQVLNYPRSQVYYHA-----RG
QPDEsELKAAIAGV-AGAYPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKV
KRKRRTTNSHFSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRA
IRGWHLSRHIDQQLT-LRALNKALERATPE-----IHHS DQGVQYAAAAYMQLLOQ
HQVQISMAEVBQAWQNGYAERLMRTIKEEEVDL---S-DYRNFTTEAYEHIEQFLEDVY
MHKRIHSSLGYLTPCEYEQQWRQQNNHYCMNK"
/note="IS3_IS51_ORF1 e-value= 6.3e-51 complete sequence
hit coverage= 100%, between model(307 aa) positions 1;
307 length is 283aa with 25 gaps, 0 stops, absolute
frame= Plus2"
CDS 59399..60214
/colour="255 0 0"
/evidence=predicted
/translation="QMVRLQDDYSIRQICQVLNYPRSQVYYHARG--QPD-----ES
ELKAAI-AGVAGAYPTYGYRRITAQLQ-RQGYCVNHKRVARLMRQIGIMAKTKVKKR
TTNSHFSFPRYGNRVLNLS-IDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGW
HLSRHIDQQLTLRALNKALERA-TPE--IHHS DQGVQYAAAAYMQLLOQHQVQISMAE
VGQAWQNGYAERLMRTIK-EEVDL-SDYRNFTTEAYEHIEQFLEDVYMHKRIHSSLGY
LTPCEYEQQWR"
/note="IS3_IS3_ORF1 e-value= 9.5e-54 complete sequence
hit coverage= 100%, between model(286 aa) positions 1;
286 length is 272aa with 15 gaps, 0 stops, absolute
frame= Plus2"
CDS 59399..60214
/colour="255 0 0"
/evidence=predicted
/translation="QMVRLQDDYSIRQICQVLNYPRSQVYYHARG--QPD-----ES
ELKAAI-AGVAGAYPTYGYRRITAQLQ-RQGYCVNHKRVARLMRQIGIMAKTKVKKR
TTNSHFSFPRYGNRVLNLS-IDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGW
HLSRHIDQQLTLRALNKALERA-TPE--IHHS DQGVQYAAAAYMQLLOQHQVQISMAE
VGQAWQNGYAERLMRTIK-EEVDL-SDYRNFTTEAYEHIEQFLEDVYMHKRIHSSLGY
LTPCEYEQQWR"
/note="IS3_IS3_ORF1 e-value= 2.5e-54 complete sequence
hit coverage= 100%, between model(286 aa) positions 1;
286 length is 272aa with 15 gaps, 0 stops, absolute
frame= Plus2"
CDS 59402..60217

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/colour="255 0 0"
/evidence=predicted
/translation="MVRQLQDDYSIRQICQVLNYPVRSQVYYHARGQPDESELKAAIAG
V-AGAYPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKVK----RKRTTNSE
HSF-PRYGNRvLNLSIDHPEQVWVADITYIRL--QOEFVYLAVVMDVFTRAIRGWHL
RHIDQQLTLRALNKALER----ATPEIHHSQDQGVQYAAAAAYMQLLQHQVQVQISM
AEVQAWQNGYAERLMRTIKEEEVDLSDYRNFT--EAYEHIEQFLEDVYMHKRIHSSLG
PCEYEQQWRQ"
/note="IS3_IS150_ORF1 e-value= 6.3e-50 fragment hit
coverage= 92.81%, between model( 306 aa) positions 23;
306 length is 272aa with 14 gaps, 0 stops, absolute
frame= Plus2"
CDS 59411..60226
/colour="255 0 0"
/evidence=predicted
/translation="QLQDDYSIRQICQVLNYPVRSQVYYHARGQPDE-----SEL
KAAIAGVAGayPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKVKRRTTNS
EHSFPRY---GNRVLNLSIDHPEQVWVADITYIRLQOEFVYLAVVMDVFTRAIRGWHL
SRHIDQQLTLRALNKALER----ATPE---IHHSQDQGVQYAAAAAYMQLLQHQVQVQISM
AEVQAWQNGYAERLMRTIKEEEVDLSDYRNFTTEAYEHIEQFLEDVYMHKRIHSSLG
LTPCEYEQQWRQNN"
/note="IS3_IS3_ORF2 e-value= 1.2e-64 complete sequence
hit coverage= 100%, between model( 288 aa) positions 1;
288 length is 272aa with 19 gaps, 0 stops, absolute
frame= Plus2"
CDS 59411..60226
/colour="255 0 0"
/evidence=predicted
/translation="QLQDDYSIRQICQVLNYPVRSQVYYHARGQPDE-----SEL
KAAIAGVAGayPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKVKRRTTNS
EHSFPRY---GNRVLNLSIDHPEQVWVADITYIRLQOEFVYLAVVMDVFTRAIRGWHL
SRHIDQQLTLRALNKALER----ATPE---IHHSQDQGVQYAAAAAYMQLLQHQVQVQISM
AEVQAWQNGYAERLMRTIKEEEVDLSDYRNFTTEAYEHIEQFLEDVYMHKRIHSSLG
LTPCEYEQQWRQNN"
/note="IS3_IS3_ORF2 e-value= 3.3e-65 complete sequence
hit coverage= 100%, between model( 288 aa) positions 1;
288 length is 272aa with 19 gaps, 0 stops, absolute
frame= Plus2"
CDS 59480..59638
/colour="255 0 0"
/evidence=predicted
/translation="YHARGQPDESELKAAIAGVAGAYPTYGYRRITAQLQRQGY----
-CVNHKRVARLMRQ"
/note="IS3_IS2_ORF2 e-value= 9.1e-09 fragment hit
coverage= 18.87%, between model( 302 aa) positions 48;
104 length is 53aa with 5 gaps, 0 stops, absolute frame=
Plus2"
CDS 59546..60229
/colour="255 0 0"
/evidence=predicted
/translation="YPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKVKRKR
TTNSEHSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQOEFVYLAVVMDVFTRAIRGW
HLSRHIDQQLTLRALNKALERATPE-----IHHSQDQGVQYAAAAAYMQLLQHQVQVQ
ISM
AEVQAWQNGYAERLMRTIKEEEVDLSDYrnFTEAYEHIEQFLEDV--YMHKRIH
SSLG
YLTTPCEYEQQWRQNNH"
/note="IS3_IS51_ORF2 e-value= 1.9e-38 fragment hit
coverage= 74.76%, between model( 317 aa) positions 73;
309 length is 228aa with 11 gaps, 0 stops, absolute
frame= Plus2"
CDS 86624..87475

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/colour="255 0 0"
/evidence=predicted
/translation="TQTLDRTXRAM-----PTAYDSDLTTLOWELLEPLIPAAK----
---PGGRPRTDMLSVLNAIFYLVVTCQWRQLPHDFPCWSTVYSYFRRWRDDGTWVH
INEHLRMQERVSEDRHSPSPAICDAQSVKVG NPRCH-SIGFDGGKMKVGRKRHVLD
TLGLVLMVMVTAANISDQR-GAKILFWKARRQGaslSRLVRIWADAGYQGQALMKWVM
DRFQYVLEVVKRSDNLAGFQVVS KRWIVERTFGWLLWSRRLNKDYEVLTRTAEALAYV
AMIRLMVRRLAQEHNFSNLS"
/note="IS5_IS1031 e-value= 1.9e-108 complete sequence hit
coverage= 100%, between model( 295 aa) positions 1; 295
length is 284aa with 14 gaps, 2 stops, absolute frame=
Plus2"
CDS 86666..87475
/colour="255 0 0"
/evidence=predicted
/translation="YDSDLTTLOWELLEPLIPAAK-----PGGRPRTDMLSVLNA
IFYLVVTCQWRQLPHDFPCWSTVYSYFRRWRDDGTWVHINEHLRMQERVSEDRHSP
SAAICDAQSVKVG NPRCH-SIGFDGGKMKVGRKRHVLDTLGLVLMVMVTAANISDQR
-GAKILFWKARRQGaslSRLVRIWADAGYQGQALMKWVM DRFQYVLEVVKRSDNLAGF
QVVS KRWIVERTFGWLLWSRRLNKDYEVLTRTAEALAYVAMIRLMVRRLAQEHNFSN
SLS"
/note="IS5_IS1031 e-value= 1.3e-110 fragment hit
coverage= 93.56%, between model( 295 aa) positions 20;
295 length is 270aa with 9 gaps, 1 stops, absolute frame=
Plus2"
CDS 86675..86914
/colour="255 0 0"
/evidence=predicted
/translation="DLTTLOWELLEPLIPAAKP-GGRPRT-TDMLSVLNAIFYLVVTC
QWRQLPHDFPCWSTVYSYFRRWRDDGTWVHINEHLRM"
/note="IS5_IS427 e-value= 3.3e-18 fragment hit coverage=
27.70%, between model( 296 aa) positions 125; 206 length
is 80aa with 2 gaps, 0 stops, absolute frame= Plus2"
CDS 104411..105622
/colour="255 0 0"
/evidence=predicted
/translation="DELIGENPQPEdiLGESGLLKRLSKRLVERALAGELTHHLQOSS
NDQS-GDeNSNGPRNSRNGYSKKT VQSEQG-EMDLSIPRDRCG-EFEPVLV PKGQORRI
A-GLDEKI IALYARGMTTRDIRAQLVELYG--ANISEALISDVTNSVMEEVKDWR SRP
LDEV--YPIVYLDALYVNIKVNGQVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAK
FWLSVLTDLKNRGTQDILIAACCDGLKGFPQAIESVYPQTQVQVCIVHLIRNSLRHVPW
KESRAVAADLKPIYQAATLE-ESEAALDAFAH-KWDETYPGISQIWIRHWDNVAPL FQ
YPMAIRKVIYTTNAIESLNRSLRKVIKTKAVFPNEESVYKLMFLAMRNISKR-WTRPI
LNWKAALSHFAILFPTRFNXYIH"
/note="IS256 e-value= 1.4e-166 complete sequence hit
coverage= 100%, between model( 410 aa) positions 1; 410
length is 404aa with 11 gaps, 1 stops, absolute frame=
Plus2"
CDS 104411..105622
/colour="255 0 0"
/evidence=predicted
/translation="DELIGENPQPEdiLGESGLLKRLSKRLVERALAGELTHHLQOSS
NDQS-GDeNSNGPRNSRNGYSKKT VQSEQG-EMDLSIPRDRCG-EFEPVLV PKGQORRI
A-GLDEKI IALYARGMTTRDIRAQLVELYG--ANISEALISDVTNSVMEEVKDWR SRP
LDEV--YPIVYLDALYVNIKVNGQVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAK
FWLSVLTDLKNRGTQDILIAACCDGLKGFPQAIESVYPQTQVQVCIVHLIRNSLRHVPW
KESRAVAADLKPIYQAATLE-ESEAALDAFAH-KWDETYPGISQIWIRHWDNVAPL FQ
YPMAIRKVIYTTNAIESLNRSLRKVIKTKAVFPNEESVYKLMFLAMRNISKR-WTRPI
LNWKAALSHFAILFPTRFNXYIH"
/note="IS256 e-value= 3.7e-167 complete sequence hit

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coverage= 100%, between model(410 aa) positions 1; 410 length is 404aa with 11 gaps, 1 stops, absolute frame= Plus2"

CDS 159026..160063
/colour="255 0 0"
/evidence=predicted
/translation="PMIKIDFTAEEIQQLNYERYHHPHPRVQRRMEVLYLKSQGLSHT QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQGQPSLLNAHS-DSVRAYFEQH PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRYRKVGYVPGKSSLP -EKIEEQEQFRHTRLEPLleeAQRQERLVFFVDAAHFVHRAYLGF-VWCITRI----- FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL DPV-IPISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVVRKE CLYSKYADFPFAFKGAIQQCIDQCNGEHKAKLTLLSLKFQSFKK"
/note="IS630 e-value= 6.7e-25 complete sequence hit coverage= 100%, between model(376 aa) positions 1; 376 length is 346aa with 33 gaps, 0 stops, absolute frame= Plus2"

CDS 159026..160063
/colour="255 0 0"
/evidence=predicted
/translation="PMIKIDFTAEEIQQLNYERYHHPHPRVQRRMEVLYLKSQGLSHT QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQGQPSLLNAHS-DSVRAYFEQH PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRYRKVGYVPGKSSLP -EKIEEQEQFRHTRLEPLleeAQRQERLVFFVDAAHFVHRAYLGF-VWCITRI----- FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL DPV-IPISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVVRKE CLYSKYADFPFAFKGAIQQCIDQCNGEHKAKLTLLSLKFQSFKK"
/note="IS630 e-value= 4.9e-24 complete sequence hit coverage= 100%, between model(376 aa) positions 1; 376 length is 346aa with 33 gaps, 0 stops, absolute frame= Plus2"

CDS 159086..159244
/colour="255 0 0"
/evidence=predicted
/translation="HHPHPRVQRRMEVLYLKSQGLSHTQICQLCQISRPTLAKTLRQY QGGIEGLK"
/note="IS481 e-value= 3.7e-09 fragment hit coverage= 15.10%, between model(351 aa) positions 1; 53 length is 53aa with 0 gaps, 0 stops, absolute frame= Plus2"

CDS 249134..249991
/colour="255 0 0"
/evidence=predicted
/translation="CRISDRNLRAM-----STAYDSDLTAEQWELLEPLIPAAK---- ---PGRPRTDMLSVVNAIFYLVTGQWRQLPHDFHCWSTVYSYFRKWRDDGTWRQ INEHLRMQVRVSEDRHPSPSAAICDAQSVKVG NPRCQ-SIGFDGGKLIKGRKRHVLDV TLGLILMVVVTAANISDQR-GAKILFWKARRQGAslgRLVRIWADAGYQGEALMQWVM DRFRYILEVIKRSNDLAGFKVVPKRWIVERTFGWLLWSRRLNKDYEVLTRTAEALVYV AMIRLMVRRLAQEyxTFQTASKMW"
/note="IS5_IS1031 e-value= 6.8e-110 complete sequence hit coverage= 100%, between model(295 aa) positions 1; 295 length is 286aa with 14 gaps, 0 stops, absolute frame= Plus2"

CDS 249164..249424
/colour="255 0 0"
/evidence=predicted
/translation="MSTAYDSDLTAEQWELLEPLIPAAKP-GGRPRT-TDMLSVVNAI FYLVVTGQWRQLPHDFHCWSTVYSYFRKWRDDGTWRQINEHLRM"
/note="IS5_IS427 e-value= 1e-22 fragment hit coverage= 30.07%, between model(296 aa) positions 118; 206 length is 87aa with 2 gaps, 0 stops, absolute frame= Plus2"

CDS 249176..249991
/colour="255 0 0"
/evidence=predicted
/translation="YSDLTAEQWELLEPLIPAAK-----PGGRPRTDMLSVVNA
IFYLVVTCQWRQLPHDFHCWSTVYSYFRKWRDDGTWRQINEHLRMQVRVSEDRHPS
SAAICDAQSVKVG NPRCQ-SIGFDGGKLIKGRKRHVLDVTLGLILMVVTAANISDQR
-GAKILFWKARRQGAslgRLVRIWADAGYQGEALMQVMDRFRYILEVIKRSDNLAGF
KVPKRWIVERTFGWLLWSRRLNKDYEVLT RTAEALVYVAMIRLMVRRLAQEy xTFQT
ASKMW"
/note="IS5_IS1031 e-value= 1.4e-111 fragment hit
coverage= 93.56%, between model(295 aa) positions 20;
295 length is 272aa with 9 gaps, 0 stops, absolute frame=
Plus2"

CDS 440219..441070
/colour="255 0 0"
/evidence=predicted
/translation="TQTLDRTXRAM-----PTAYDSDLTTLOWELLEPLIPAAK----
---PGGRPRTDMLSVLNAIFYLVVTCQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQ
INEHLRMQVRVSEDRHPS SAAICDAQSVKVG NPRCH-LIGFDGGKMKVGRKRHVLD
TLGLVLMVMVTAANISDQR-GAKILFWKARRQGAslSRLVRIWADAGYQGOALMKWVM
DRSQYVLEVIKRSDNLAGFQVSKRWIVERTFGWLLWSRRLNKDYEVLT RTAEALVYV
AMIRLMVRRLAQEHXNFSNLS"
/note="IS5_IS1031 e-value= 2.3e-109 complete sequence hit
coverage= 100%, between model(295 aa) positions 1; 295
length is 284aa with 14 gaps, 2 stops, absolute frame=
Plus2"

CDS 440261..441070
/colour="255 0 0"
/evidence=predicted
/translation="YSDLTTLOWELLEPLIPAAK-----PGGRPRTDMLSVLNA
IFYLVVTCQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRMQVRVSEDRHPS
SAAICDAQSVKVG NPRCH-LIGFDGGKMKVGRKRHVLDVTLGLVLMVMVTAANISDQR
-GAKILFWKARRQGAslSRLVRIWADAGYQGOALMKWVMDRSQYVLEVIKRSDNLAGF
QVSKRWIVERTFGWLLWSRRLNKDYEVLT RTAEALVYVAMIRLMVRRLAQEHXNFSN
SLS"
/note="IS5_IS1031 e-value= 1.5e-111 fragment hit
coverage= 93.56%, between model(295 aa) positions 20;
295 length is 270aa with 9 gaps, 1 stops, absolute frame=
Plus2"

CDS 440270..440509
/colour="255 0 0"
/evidence=predicted
/translation="DLTTLOWELLEPLIPAAKP-GGRPRT-TDMLSVLNAIFYLVVTC
CQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRM"
/note="IS5_IS427 e-value= 2e-19 fragment hit coverage=
27.70%, between model(296 aa) positions 125; 206 length
is 80aa with 2 gaps, 0 stops, absolute frame= Plus2"

CDS 720377..721051
/colour="255 0 0"
/evidence=predicted
/translation="SXGICMKCECGGQH-IHKNGHRR-GKQNHICVTCGRQFL--ST
YSKRGYSDWTKRLCLRMVNGMGLKGIERVIGVAHTTVIHVVQVGVLLPDAYDPDD-
-----IP---QVGELDELETFVGKRNKVWIW-TVVDHFHPG--ILGWVGNHSAETF
RPLWq aIVCWQCFFWVSDGNPVYp gFIPEgDQIVSKTYMTRVEGENTRLRHYLARLHR
KTLCSYKSV DMLKHSIRLL---IHYL"
/note="IS1_ORF1 e-value= 4e-41 complete sequence hit
coverage= 100%, between model(239 aa) positions 1; 239
length is 225aa with 19 gaps, 1 stops, absolute frame=
Plus2"

CDS 720377..721051

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/colour="255 0 0"
/evidence=predicted
/translation="SXGICMKCPECGQH-IHKNHGRR-GKQNHICVTCGRQFL--ST
YSKRGYSdwTKRLCLRMVNGMGLKGIERVIGVAHTTVIHVVQVGVLLPDAYDPDD-
-----IP---QVGELDELETFVGGKRNKVWIW-TVVDHFHFG--ILGWVGNHSAETF
RPLWqaIVCWQCFFWVSDGNPVYpgFIPEgDQIVSKTYMTRVEGENTRLRHYLARLHR
KTLCYSKSVDMLKHSIRLL---IHYL"
/note="IS1_ORF1 e-value= 2.4e-40 complete sequence hit
coverage= 100%, between model( 239 aa) positions 1; 239
length is 225aa with 19 gaps, 1 stops, absolute frame=
Plus2"
CDS 720377..721057
/colour="255 0 0"
/evidence=predicted
/translation="SXGICMKCPECGQH-IHKNHGRR-GKQNHICVTCGR---QFL
STYSKRGysdwTKRLCLRMVNGMGLKGIERVIGVAHTTVIHVVQV--GVLLPDAYD
PDDIPQVGELDELETFVGGKRNKVWIWTVVDHFHFGILGWVGNHSAETFRLWQAIV
CWQ-CFFWVSDGNPVYPGFIPEG----DQIVSKTYMTRVEGENTRLRHYLARLHRKTL
CYSKSVDMLKHSIRLLI-HYLKF"
/note="IS1_ORF2 e-value= 1.5e-28 complete sequence hit
coverage= 100%, between model( 237 aa) positions 1; 237
length is 227aa with 14 gaps, 1 stops, absolute frame=
Plus2"
CDS 720656..721057
/colour="255 0 0"
/evidence=predicted
/translation="DPDDIPQVGELDELETFVGGKRNKVWIWTVVDHFHFGILGWVVG
NHAETFRPLWQAIVCWQ-CFFWVSDGNPVYPGFIPEG----DQIVSKTYMTRVEGEN
TRLRHYLARLHRKTLCYSKSVDMLKHSIRLLI-HYLKF"
/note="IS1_ORF2 e-value= 3e-31 fragment hit coverage=
59.07%, between model( 237 aa) positions 98; 237 length
is 134aa with 6 gaps, 0 stops, absolute frame= Plus2"
CDS 748838..749635
/colour="255 0 0"
/evidence=predicted
/translation="IRVSCVVAQGDGSTALLQAIHQAFGLEGxlfGCKLHPPLYCKKEN
DLVIKRGHSRICIWIWVRTAVVVLVLT-QKQWXTHSDYTLAVTSKRLFEEK-----XV
KLSRYXsvNTQTLDRTXRAMPTAYDSDLTTLQWELLEPLIPAAKP-GGRPRT-TDMLS
VLNAIFYLVVTGCQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRMQVRVSE--
-----DRHPSPSAAICDAQSVkvgnpRCHLIGFDGG
KMVKGRKRHVLDLGLVLMVMVTAANIS"
/note="IS5_IS427 e-value= 2.8e-07 complete sequence hit
coverage= 100%, between model( 296 aa) positions 1; 296
length is 266aa with 39 gaps, 5 stops, absolute frame=
Plus2"
CDS 749108..749977
/colour="255 0 0"
/evidence=predicted
/translation="EKXVKLSRYXsvNTQTLDRTXramptaYDSDLTTLQWELLEPLI
PAAKPG-----GRPRTDML-----SVLNAIFYLVVTGCQWRQ
--LPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRMQVRVSED---RHPSPSAAICDAQ
SVK-----VGNpRCHLIGFD-----GGKM-
-----VKGRKRHVLD-TL
GLVLMVMVTAANISDQRGAK-----ILFWKAQRQGASLSRL
VR----IWADAGYQGQALMKWMDRFQYVLEVVKRSDNLAGFQVIPKRWIVERTFGWL
LWSRRLNKDYEVLTRTAEALVYVAMIRLMVRRLAQEHX"
/note="IS5_IS5 e-value= 1.8e-09 complete sequence hit
coverage= 100%, between model( 422 aa) positions 1; 422
length is 290aa with 140 gaps, 4 stops, absolute frame=
Plus2"

```

CDS 749147..749998
/colour="255 0 0"
/evidence=predicted
/translation="TQTLDRTXRAM-----PTAYDSLTTLQWELLEPLIPAAK-----
---PGGRPRTDMLSVLNAIFYLVVTCQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQ
INEHLRMQVRVSEDRHSPSPAICDAQSVKVG NPRCH-LIGFDGGKMKVGRKRHVLD
TLGLVLMVMVTAANISDQR-GAKILFWKAQRQGaslSRLVRIWADAGYQGQALMKWVM
DRFQYVLEVVKRSDNLAGFQVIPKRWIVERTFGWLLWSRRLNKDYEVLTRTAEALVYV
AMIRLMVRRLAQEHNFSNSLX"
/note="IS5_IS1031 e-value= 1.8e-111 complete sequence hit
coverage= 100%, between model(295 aa) positions 1; 295
length is 284aa with 14 gaps, 3 stops, absolute frame=
Plus2"

CDS 749189..749998
/colour="255 0 0"
/evidence=predicted
/translation="YDSLTTLQWELLEPLIPAAK-----PGGRPRTDMLSVLNA
IFYLVVTCQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRMQVRVSEDRHSP
SAAICDAQSVKVG NPRCH-LIGFDGGKMKVGRKRHVLDTLGLVLMVMVTAANISDQR
-GAKILFWKAQRQGaslSRLVRIWADAGYQGQALMKWVM DRFQYVLEVVKRSDNLAGF
QVIPKRWIVERTFGWLLWSRRLNKDYEVLTRTAEALVYVAMIRLMVRRLAQEHNFSN
SLX"
/note="IS5_IS1031 e-value= 1.2e-113 fragment hit
coverage= 93.56%, between model(295 aa) positions 20;
295 length is 270aa with 9 gaps, 2 stops, absolute frame=
Plus2"

CDS 749198..749437
/colour="255 0 0"
/evidence=predicted
/translation="DLTTLQWELLEPLIPAAKP-GGRPRT-TDMLSVLNAIFYLVVTC
CQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRM"
/note="IS5_IS427 e-value= 2e-19 fragment hit coverage=
27.70%, between model(296 aa) positions 125; 206 length
is 80aa with 2 gaps, 0 stops, absolute frame= Plus2"

CDS 791804..792046
/colour="255 0 0"
/evidence=predicted
/translation="VKLAELIPWESFESEYADQFSQ---TMGAPAKPFRVALGTLLIK
EKLGISDAETVEQIRENPYLOQYFLGFSEYRESAPFDASML"
/note="IS5_IS5 e-value= 2.6e-06 fragment hit coverage=
19.91%, between model(422 aa) positions 23; 106 length
is 81aa with 3 gaps, 0 stops, absolute frame= Plus2"

CDS 940328..941023
/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMI sDIKRKSLPAIARAVGLENHQSLHHFLSESPWVAS
hLSDkRLDIILKILDGRRLILLID-----ETGDCKKGKSTDYVVKR
QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
PQIAAGMIRQLQGMGFCELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY"
/note="IS4 e-value= 4.7e-14 fragment hit coverage=
51.23%, between model(486 aa) positions 1; 249 length is
232aa with 27 gaps, 0 stops, absolute frame= Plus2"

CDS 940328..941455
/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMI sDIKRKSLPAIARAVGLENHQSLHHFLSESPWVAS
hLSDkRLDIILKILDGRRLILLID-----ETGDCKKGKSTDYVVKR
QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
PQIAAGMIRQLQGMGFCELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP

AEQAVFAEPWQSFERTFSNGT-----TETRYR
QEIIYGQRHHQKRYWLLTTDPQTLPENSTS-----YVMAA
APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TLGWADFRMTHYEQIEKWWEIVMSA
FLMVSLFADVFNDS-----CPVAHQHFAQHPwWDNONG
WKNLLNNVR--LIIQPLIS----WLLKRWLEVFPSRALKKGf"
/note="IS4 e-value= 9.9e-07 complete sequence hit
coverage= 100%, between model(486 aa) positions 1; 486
length is 376aa with 117 gaps, 0 stops, absolute frame=
Plus2"

CDS 942041..942427
/colour="255 0 0"
/evidence=predicted
/translation="YADESGMDHRDEYDY-AYGPKGE-----RVYA-LKTG-
RRSGRVNMIAALRAKQL--MAPFTIEGACNRTVFELwLERCLIPvIKPGQKLVI--DN
ATFHKGGQIQELVEKAG--CEVWYLPPYSPDLNKIERSWSWIKSRIR"
/note="IS630 e-value= 1.1e-13 fragment hit coverage=
38.83%, between model(376 aa) positions 188; 333 length
is 129aa with 20 gaps, 0 stops, absolute frame= Plus2"

CDS 1009808..1010014
/colour="255 0 0"
/evidence=predicted
/translation="IKANILKGQLIQADETPIKMVK---RE--TGYVWVFTTTD----
-----AVLYFFKSTRKAFFLKELLKDFGTGVLISDFYAGY"
/note="IS66_ORF2 e-value= 1e-08 fragment hit coverage=
16.26%, between model(535 aa) positions 243; 329 length
is 69aa with 18 gaps, 0 stops, absolute frame= Plus2"

CDS 1009844..1010014
/colour="255 0 0"
/evidence=predicted
/translation="ADETPIKMV-----KRETGYVWVFTTTD-----AVLYFFK
STRKAFFLKELLKDFGTGVLISDFYAGY"
/note="IS66_ORF3 e-value= 3.6e-07 fragment hit coverage=
12.72%, between model(558 aa) positions 287; 357 length
is 57aa with 14 gaps, 0 stops, absolute frame= Plus2"

CDS 1313054..1314091
/colour="255 0 0"
/evidence=predicted
/translation="PMIKIDFTAEEIQQLNYERYHHPHPRVQRRMEVLYLKSQGLSHT
QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQGPSLLNAHS-DSVRAYFEQH
PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRYRKVGYPGKSSLP
-EKIEEQEQFRHTRLEPLleeAQRQERLVFVDAAHFVHRAYLGF-VWCITRI-----
-----FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL
DPV-IPISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVVRKE
CLYSKYYADFPFAFKGAIQQCIDQCNGEHKAKLTLLSLKFQSFKK"
/note="IS630 e-value= 6.7e-25 complete sequence hit
coverage= 100%, between model(376 aa) positions 1; 376
length is 346aa with 33 gaps, 0 stops, absolute frame=
Plus2"

CDS 1313054..1314091
/colour="255 0 0"
/evidence=predicted
/translation="PMIKIDFTAEEIQQLNYERYHHPHPRVQRRMEVLYLKSQGLSHT
QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQGPSLLNAHS-DSVRAYFEQH
PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRYRKVGYPGKSSLP
-EKIEEQEQFRHTRLEPLleeAQRQERLVFVDAAHFVHRAYLGF-VWCITRI-----
-----FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL
DPV-IPISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVVRKE
CLYSKYYADFPFAFKGAIQQCIDQCNGEHKAKLTLLSLKFQSFKK"
/note="IS630 e-value= 4.9e-24 complete sequence hit
coverage= 100%, between model(376 aa) positions 1; 376

length is 346aa with 33 gaps, 0 stops, absolute frame= Plus2"

CDS 1313114..1313272
/colour="255 0 0"
/evidence=predicted
/translation="HHPHPRVQRRMEVLYLKSQGLSHTQICQLCQISRPTLAKTLRQY
QGGIEGLK"
/note="IS481 e-value= 3.7e-09 fragment hit coverage= 15.10%, between model(351 aa) positions 1; 53 length is 53aa with 0 gaps, 0 stops, absolute frame= Plus2"

CDS 1525481..1525684
/colour="255 0 0"
/evidence=predicted
/translation="QRYQCKDCNRRFN-ERTGTPMARLRtasSVVSYAIKARTEGMGV
RAAGRFTFGKSHTTIMRWEKRLADQA"
/note="IS1_ORF1 e-value= 2.6e-10 fragment hit coverage= 27.62%, between model(239 aa) positions 28; 93 length is 68aa with 1 gaps, 0 stops, absolute frame= Plus2"

CDS 1529090..1529305
/colour="255 0 0"
/evidence=predicted
/translation="REIHEAIGVSIRTIERVRMRFVEEG---LEAAINQRsGAGRKRK
IQGEQEAHLIALRCSEPPVG---HARWTLRLLAD"
/note="IS630 e-value= 9.9e-08 fragment hit coverage= 20.74%, between model(376 aa) positions 44; 121 length is 72aa with 7 gaps, 0 stops, absolute frame= Plus2"

CDS 1580969..1581355
/colour="255 0 0"
/evidence=predicted
/translation="YADESGMDHRDEYDY-AYGPKGE-----RVYA-LKTG-
RRSGRVNMIAALRAKQL--MAPFTIEGACNRTVFEIWLercLIPMLKPGQKLVII--DN
ATFHKGGRIQELVEKAG--CEVWYLPPYSPDLNKIERSWSWIKSRIR"
/note="IS630 e-value= 6.9e-14 fragment hit coverage= 38.83%, between model(376 aa) positions 188; 333 length is 129aa with 20 gaps, 0 stops, absolute frame= Plus2"

CDS 1587323..1587460
/colour="255 0 0"
/evidence=predicted
/translation="WQTDGWEGYARQLPDE---VVHEVSKALTQRLERTNGIVRQQTG
RWHRR"
/note="IS1_ORF2 e-value= 1.8e-11 fragment hit coverage= 20.68%, between model(237 aa) positions 164; 212 length is 46aa with 3 gaps, 0 stops, absolute frame= Plus2"

CDS 1631051..1631893
/colour="255 0 0"
/evidence=predicted
/translation="LDRTL RAMPTA-----YSDLTTLQWELLEPLIPAAK----
---PGGRPRTTDMRSVLNAILYLVVTGCQWRQLPHDFPCWSTVYSYFRRWRDDGTWVH
INEHLRMQERVSEDRHPSRAAICDAQSVKVG NPRCH-SIGFDGKQIKGRKRHVLVD
TLGLVLMVIVTAANISDQR-GAKILFWKARRQGaslSRLVRIWADAGYQGQAFMKWVM
DRFQYVLEVIKRSNDLAGFQVIPKRWIVERTFGWLLWSRRLNKDYEVLT RTAEALVYV
AMIRLMVRRRLTEEAXNFSNSLL"
/note="IS5_IS1031 e-value= 2.8e-110 complete sequence hit coverage= 100%, between model(295 aa) positions 1; 295 length is 281aa with 17 gaps, 1 stops, absolute frame= Plus2"

CDS 1631084..1631893
/colour="255 0 0"
/evidence=predicted
/translation="YSDLTTLQWELLEPLIPAAK-----PGGRPRTTDMRSVLNA

ILYLVVTGCQWRQLPHDFPCWSTVYSYFRRWRDDGTWVHINEHLRMQERVSEDRHPSP
 RAAICDAQSVKVG NPRCH-SIGFDGGKQIKGRKRHVLDVTLGLVLMVIVTAANISDQR
 -GAKILFWKARRQGaslSRLVRIWADAGYQGQAFMKWVMDRFQYVLEVIKRSNDLAGF
 QVIPKRWIVERTFGWLLWSRRLNKDYEVLT RTAEALVYVAMIRLMVRRLTEEXNFSN
 SLL"
 /note="IS5_IS1031 e-value= 1.4e-112 fragment hit
 coverage= 93.56%, between model(295 aa) positions 20;
 295 length is 270aa with 9 gaps, 1 stops, absolute frame=
 Plus2"
 CDS 1631093..1631332
 /colour="255 0 0"
 /evidence=predicted
 /translation="DLTTLQWELLEPLIPAAKP-GGRPRT-TDMRSVLNAILYLVVTG
 CQWRQLPHDFPCWSTVYSYFRRWRDDGTWVHINEHLRM"
 /note="IS5_IS427 e-value= 1.2e-18 fragment hit coverage=
 27.70%, between model(296 aa) positions 125; 206 length
 is 80aa with 2 gaps, 0 stops, absolute frame= Plus2"
 CDS 2086388..2086531
 /colour="255 0 0"
 /evidence=predicted
 /translation="VIVIDNASFHHGQRIEEIVAEAG--CEIWYLPYSYSPDLNKIERW
 WFVLKN"
 /note="IS630 e-value= 1.7e-14 fragment hit coverage=
 13.30%, between model(376 aa) positions 281; 330 length
 is 48aa with 2 gaps, 0 stops, absolute frame= Plus2"
 CDS 2216453..2216695
 /colour="255 0 0"
 /evidence=predicted
 /translation="VKLAELIPWESFESEYADQFSQ---TMGAPAKPFRVALGTLIIK
 EKLGISDAETVEQIRENPYLOQYFLGFSEYRESAPFDASML"
 /note="IS5_IS5 e-value= 2.6e-06 fragment hit coverage=
 19.91%, between model(422 aa) positions 23; 106 length
 is 81aa with 3 gaps, 0 stops, absolute frame= Plus2"
 CDS 2274167..2274631
 /colour="255 0 0"
 /evidence=predicted
 /translation="LSIYYPKHASPCLR---TFSA--RLXLLHISnagXRSSIKKSIV
 ENHLGNYAVtrLTILKGMVSKDHDHTLIEYPPSKSISDIAKRLKGFSTRRLQOEYREL
 ERRYWDKYLWALGYGAWSTGNISEQMVEEYLEHHRLVSNNDINTFMLEXIKTLVLRRI
 "
 /note="IS200 e-value= 1.5e-09 complete sequence hit
 coverage= 100%, between model(154 aa) positions 1; 154
 length is 155aa with 5 gaps, 3 stops, absolute frame=
 Plus2"
 CDS 2274167..2274628
 /colour="255 0 0"
 /evidence=predicted
 /translation="LSIYYPKHASPCLR---TFSARLXLLHISNAGXRSSIKKSIVEN
 hLGNyAvtrLTILKGMVSKDHDHTLIEYPPSKSISDIAKRLKGFSTRRLQOEYRELER
 RYWDKYLWALGYGAWSTGNISEQMVEEYLEHHRLVSNNDINTFMLEXIKTLVLRRI"
 /note="IS200_IS605 e-value= 3.6e-09 complete sequence hit
 coverage= 100%, between model(153 aa) positions 1; 153
 length is 154aa with 3 gaps, 3 stops, absolute frame=
 Plus2"
 CDS 2274320..2274559
 /colour="255 0 0"
 /evidence=predicted
 /translation="TILKGMVSKDHDHTLIEYPPSKSISDIAKRLKGFSTRRLQOEYR
 ELERRYWDKYLWALGYGAWSTGNISEQMVEEYLEHH"
 /note="IS200 e-value= 3.2e-19 fragment hit coverage=

51.95%, between model(154 aa) positions 51; 130 length is 80aa with 0 gaps, 0 stops, absolute frame= Plus2"

CDS 2274320..2274559
/colour="255 0 0"
/evidence=predicted
/translation="TILKGMVSKDHDHTLIEYPPSKSISDIAKRLKGFSTRRLQOEYR ELERRYWDKYLWALGYGAWSTGNISEQMVEEYLEHH"
/note="IS200_IS605 e-value= 7.4e-15 fragment hit coverage= 52.29%, between model(153 aa) positions 51; 130 length is 80aa with 0 gaps, 0 stops, absolute frame= Plus2"

CDS 2409029..2410090
/colour="255 0 0"
/evidence=predicted
/translation="IVKRXKN-----EQCIVSHpYPALXPPQPLAOG---ISSA--- --RQXHFSESEQRRQRXSENCVSRASSRPIDAAIRDRKKSLNVLTP--NQKRQMVRL QODYSIRQICQVLNYPQRSQVYYHARGQP-----DESELKAAIAGVAGAYP-TYGYRRI TAQLQ---RQGYCVNHKRVARLMRQIGIMAKTKVK-RKRTTSEHSfPRYGNRVLNLS --IDHPEQVWVADITYIRLQ-QEFVYLAVVMDVFTRAIRGWHLRSRHIDQQLTLRALNK ALERAT---PEIHHS-----DQGVQYAAAAYMQLLQHQVQVQISMAEVBQAWQNGYAER LMRTIKKEEVD--LSDYRNFTTEAYEHIEQFLEDVYMHKRIHSSLGYLTPCEYEQQWRQ Q"
/note="IS3_IS150_ORF2 e-value= 1.7e-22 complete sequence hit coverage= 100%, between model(389 aa) positions 1; 389 length is 354aa with 39 gaps, 5 stops, absolute frame= Plus2"

CDS 2409203..2410087
/colour="255 0 0"
/evidence=predicted
/translation="PIDAAIRDRKKSLnVLTPNQKRQMVRLQODYSIRQICQVLNYP RSQVYYHARGQPDESELKAAIAGV-AGAYPTYGYRRIITAQLQRQGYCVNHKRVARLMR QIGIMAKTKVK----RKRTTSEHSF-PRYGNRvLNLSIDHPEQVWVADITYIRL--Q QEFVYLAVVMDVFTRAIRGWHLRSRHIDQQLTLRALNKALER----ATPEIHHS DQGVQ YAAAAYMQLLQHQVQVQISMAEVBQAWQNGYAERLMRTIKKEEVDLSDYRNFT--EAYE HIEQFLEDVYMHKRIHSSLGYLTPCEYEQQWRQ"
/note="IS3_IS150_ORF1 e-value= 4.3e-49 complete sequence hit coverage= 100%, between model(306 aa) positions 1; 306 length is 295aa with 14 gaps, 0 stops, absolute frame= Plus2"

CDS 2409239..2410123
/colour="255 0 0"
/evidence=predicted
/translation="LNVLTPNQK-RQMVRLQqDYSIRQICQVLNYP---RSQVYYHA RgQPDESELKA--AIAGV-----AGA---YPTYGYRRIITAQLQRQGYCVNHKRVAR LMRQIGIMAKTKVKRKRTTSEHSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQOEF VYLAVVMDVFTRAIRGWHLRSRHIDQQLTLRALNKALERATPE-----IHSDQGV QYAAAAYMQLLQHQVQVQISMAEVBQAWQNGYAERLMRTIKKEEVDLSDYrnFTTEAYEH IEQFLEDV--YMHKRIHSSLGYLTPCEYEQQWRQNNHYCMNKEDS"
/note="IS3_IS51_ORF2 e-value= 1.6e-26 complete sequence hit coverage= 100%, between model(317 aa) positions 1; 317 length is 295aa with 27 gaps, 0 stops, absolute frame= Plus2"

CDS 2409245..2409499
/colour="255 0 0"
/evidence=predicted
/translation="VLTPNQKROMVRLQODY--SIRQICQVLNYPQRSQVYYHARGQP DESELKAAIAGVAGAYPTYGYRRIITAQLQRQGYCVNHKRVARL"
/note="IS3_IS407_ORF2 e-value= 1.2e-17 fragment hit coverage= 25.29%, between model(344 aa) positions 60; 146 length is 85aa with 2 gaps, 0 stops, absolute frame=

Plus2"

CDS 2409263..2410090
/colour="255 0 0"
/evidence=predicted
/translation="KRQMVRLQODYSIRQICQVLNYPQRSQVYYHARGQP-----DES
ELKAAIAGVAGAYP-TYGYRRITAQLQ---RQGYCVNHKRVARLMRQIGIMAKTKVK-
RKRTTNSHSfPRYGNRVLNLS--IDHPEQVWVADITYIRLQ-QEFVYLAVVMDVFTR
AIRGWHLRHRIDQQLTLRALNKALERAT---PEIHHS-----DQGVQYAAAAYMQLLQ
QHQQVQISMAEVGQAWQNGYAERLMRTIKEEEVD--LSDYRNFTEAYEHIEQFLEdVYM
HKRIHSSLGYLTPCEYEQQWRQO"
/note="IS3_IS150_ORF2 e-value= 2.2e-47 fragment hit
coverage= 76.09%, between model(389 aa) positions 94;
389 length is 276aa with 23 gaps, 0 stops, absolute
frame= Plus2"

CDS 2409266..2410114
/colour="255 0 0"
/evidence=predicted
/translation="RQMVRLQODYSIRQICQVLNYPQRSQVYYHA-----RG
QPDES ELKAAIAGV-AGAYPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKV
KRRTTNSHSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRA
IRGWHLRHRIDQQLT-LRALNKALERATPE-----IHSDQGVQYAAAAYMQLLQO
HQVQISMAEVGQAWQNGYAERLMRTIKEEEVDL---S-DYRNFTEAYEHIEQFLEDVY
MHKRIHSSLGYLTPCEYEQQWRQONNHCMNK"
/note="IS3_IS51_ORF1 e-value= 8.1e-53 complete sequence
hit coverage= 100%, between model(307 aa) positions 1;
307 length is 283aa with 25 gaps, 0 stops, absolute
frame= Plus2"

CDS 2409266..2410114
/colour="255 0 0"
/evidence=predicted
/translation="RQMVRLQODYSIRQICQVLNYPQRSQVYYHA-----RG
QPDES ELKAAIAGV-AGAYPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKV
KRRTTNSHSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRA
IRGWHLRHRIDQQLT-LRALNKALERATPE-----IHSDQGVQYAAAAYMQLLQO
HQVQISMAEVGQAWQNGYAERLMRTIKEEEVDL---S-DYRNFTEAYEHIEQFLEDVY
MHKRIHSSLGYLTPCEYEQQWRQONNHCMNK"
/note="IS3_IS51_ORF1 e-value= 6.3e-51 complete sequence
hit coverage= 100%, between model(307 aa) positions 1;
307 length is 283aa with 25 gaps, 0 stops, absolute
frame= Plus2"

CDS 2409269..2410084
/colour="255 0 0"
/evidence=predicted
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ELKAAI-AGVAGAYPTYGYRRITAQLQ-RQGYCVNHKRVARLMRQIGIMAKTKVKRKR
TTNSHSfPRYGNRVLNLS-IDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGW
HLRHRIDQQLTLRALNKALERA-TPE--IHSDQGVQYAAAAYMQLLQOQHQQVQISMAE
VGQAWQNGYAERLMRTIK-EEVDL--SDYRNFTEAYEHIEQFLEDVYMHKRIHSSLGY
LTPCEYEQQWR"
/note="IS3_IS3_ORF1 e-value= 9.5e-54 complete sequence
hit coverage= 100%, between model(286 aa) positions 1;
286 length is 272aa with 15 gaps, 0 stops, absolute
frame= Plus2"

CDS 2409269..2410084
/colour="255 0 0"
/evidence=predicted
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ELKAAI-AGVAGAYPTYGYRRITAQLQ-RQGYCVNHKRVARLMRQIGIMAKTKVKRKR
TTNSHSfPRYGNRVLNLS-IDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGW
HLRHRIDQQLTLRALNKALERA-TPE--IHSDQGVQYAAAAYMQLLQOQHQQVQISMAE

VGQAWQNGYAERLMRTIK-EEEVDL-SDYRNFTEAYEHIEQFLEDVYMHKRIHSSLGY
 LTPCEYEQQWR"
 /note="IS3_IS3_ORF1 e-value= 2.5e-54 complete sequence
 hit coverage= 100%, between model(286 aa) positions 1;
 286 length is 272aa with 15 gaps, 0 stops, absolute
 frame= Plus2"
 CDS 2409272..2410087
 /colour="255 0 0"
 /evidence=predicted
 /translation="MVRQLQQDYSIRQICQVLNYPRSQVYYHARGQPDESELKAAIAG
 V-AGAYPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKVK----RKRTTNSE
 HSF-PRYGNRVLNLSIDHPEQVWVADITYIRL--QQEFVYLAVVMDVFTRAIRGWHL
 RHIDQQLTLRALNKALER----ATPEIHHSQGVQYAAAAAYMQLLQHQVQVQISM
 AEVQAWQNGYAERLMRTIKEEEVDLSDYRNFTEAYEHIEQFLEDVYMHKRIHSSLGYLT
 PCEYEQQWRQ"
 /note="IS3_IS150_ORF1 e-value= 6.3e-50 fragment hit
 coverage= 92.81%, between model(306 aa) positions 23;
 306 length is 272aa with 14 gaps, 0 stops, absolute
 frame= Plus2"
 CDS 2409281..2410096
 /colour="255 0 0"
 /evidence=predicted
 /translation="QLQQDYSIRQICQVLNYPRSQVYYHARGQPDE-----SEL
 KAAIAGVAGayPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKVKRRTTNS
 EHSFPRY---GNRVLNLSIDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGWHL
 SRHIDQQLTLRALNKALER----ATPE---IHHSQGVQYAAAAAYMQLLQHQVQVQISM
 AEVQAWQNGYAERLMRTIKEEEVDLSDYRNFTEAYEHIEQFLEDVYMHKRIHSSLGY
 LTPCEYEQQWRQNN"
 /note="IS3_IS3_ORF2 e-value= 1.2e-64 complete sequence
 hit coverage= 100%, between model(288 aa) positions 1;
 288 length is 272aa with 19 gaps, 0 stops, absolute
 frame= Plus2"
 CDS 2409281..2410096
 /colour="255 0 0"
 /evidence=predicted
 /translation="QLQQDYSIRQICQVLNYPRSQVYYHARGQPDE-----SEL
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 EHSFPRY---GNRVLNLSIDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGWHL
 SRHIDQQLTLRALNKALER----ATPE---IHHSQGVQYAAAAAYMQLLQHQVQVQISM
 AEVQAWQNGYAERLMRTIKEEEVDLSDYRNFTEAYEHIEQFLEDVYMHKRIHSSLGY
 LTPCEYEQQWRQNN"
 /note="IS3_IS3_ORF2 e-value= 3.3e-65 complete sequence
 hit coverage= 100%, between model(288 aa) positions 1;
 288 length is 272aa with 19 gaps, 0 stops, absolute
 frame= Plus2"
 CDS 2409350..2409508
 /colour="255 0 0"
 /evidence=predicted
 /translation="YHARGQPDESELKAAIAGVAGAYPTYGYRRITAQLQRQGY----
 -CVNHKRVARLMRQ"
 /note="IS3_IS2_ORF2 e-value= 9.1e-09 fragment hit
 coverage= 18.87%, between model(302 aa) positions 48;
 104 length is 53aa with 5 gaps, 0 stops, absolute frame=
 Plus2"
 CDS 2409416..2410099
 /colour="255 0 0"
 /evidence=predicted
 /translation="YPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKVKRKR
 TTNSEHSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGW
 HLSRHIDQQLTLRALNKALERATPE-----IHHSQGVQYAAAAAYMQLLQHQVQ

ISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYrnFTEAYEHIEQFLEDV--YMHKRIH
SSLGylTPCEYEQQWRQONNH"
/note="IS3_IS51_ORF2 e-value= 1.9e-38 fragment hit
coverage= 74.76%, between model(317 aa) positions 73;
309 length is 228aa with 11 gaps, 0 stops, absolute
frame= Plus2"
CDS 2500838..2501899
/colour="255 0 0"
/evidence=predicted
/translation="IVKRXKN-----EQCIVSHpYPALXPPQPLAQG---ISSA---
--RQXHFxESEQRQRXSENCsvRASSRPIDAAIRDRKKSLNVLTP--NQRQMVRL
QQDYSIRQICQVLNYPRSQVYYHARGQP-----DESELKAAIAGVAGAYP-TYGYRRI
TAQLQ---RQGYCVNHKRVARLMRQIGIMAKTKVK-RKRTTNSEHSfprYGnrVlNLS
--IDHPEQVWVADITYIRLQ-QEFVYLAVVMDVFTRAIRGWHLsrHIDQQLTLRALNK
ALERAT---PEIHHS-----DOGVOYAAAAYMQLLQHQVQISMAEVGQAWQNGYAER
LMRTIKEEEVD--LSDYRNFTAYEHIEQFLEDVYMHKRIHSSLGylTPCEYEQQWRQ
Q"
/note="IS3_IS150_ORF2 e-value= 1.7e-22 complete sequence
hit coverage= 100%, between model(389 aa) positions 1;
389 length is 354aa with 39 gaps, 5 stops, absolute
frame= Plus2"
CDS 2501012..2501896
/colour="255 0 0"
/evidence=predicted
/translation="PIDAAIRDRKKSLnVLTPNQRQMVRLQQDYSIRQICQVLNYP
RSQVYYHARGQPDESELKAAIAGV-AGAYPTYGYRRITaQLQRQGYCVNHKRVARLMR
QIGIMAKTKVK----RKRTTNSEHSF-PRYGNrvlNLSIDHPEQVWVADITYIRL--Q
QEFVYLAVVMDVFTRAIRGWHLsrHIDQQLTLRALNKALER----ATPEIHHSDOGVO
YAAAAYMQLLQHQVQISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYRNFT--EAYE
HIEQFLEDVYMHKRIHSSLGylTPCEYEQQWRQ"
/note="IS3_IS150_ORF1 e-value= 4.3e-49 complete sequence
hit coverage= 100%, between model(306 aa) positions 1;
306 length is 295aa with 14 gaps, 0 stops, absolute
frame= Plus2"
CDS 2501048..2501932
/colour="255 0 0"
/evidence=predicted
/translation="LNVLTPNQR-RQMVRLQqDYSIRQICQVLNYP---RSQVYYHA
RgQPDESELKA--AIAGV-----AGA---YPTYGYRRITaQLQRQGYCVNHKRVAR
LMRQIGIMAKTKVkrKRTTNSEHSfprYGnrVl-NLSIDHPEQVWVADITYIRLQqEF
VYLAVVMDVFTRAIRGWHLsrHIDQQLTLRALNKALERATPE-----IHHSDOGVO
YAAAAYMQLLQHQVQISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYrnFTEAYEH
IEQFLEDV--YMHKRIHSSLGylTPCEYEQQWRQONNHycMNKEDS"
/note="IS3_IS51_ORF2 e-value= 1.6e-26 complete sequence
hit coverage= 100%, between model(317 aa) positions 1;
317 length is 295aa with 27 gaps, 0 stops, absolute
frame= Plus2"
CDS 2501054..2501308
/colour="255 0 0"
/evidence=predicted
/translation="VLTPNQRQMVRLQQDY--SIRQICQVLNYPRSQVYYHARGQP
DESELKAAIAGVAGAYPTYGYRRITaQLQRQGYCVNHKRVARL"
/note="IS3_IS407_ORF2 e-value= 1.2e-17 fragment hit
coverage= 25.29%, between model(344 aa) positions 60;
146 length is 85aa with 2 gaps, 0 stops, absolute frame=
Plus2"
CDS 2501072..2501899
/colour="255 0 0"
/evidence=predicted
/translation="KRQMVRLQQDYSIRQICQVLNYPRSQVYYHARGQP-----DES

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ELKAAIAGVAGAYP-TYGYRRITAQLQ---RQGYCVNHKRVARLMRQIGIMAKTKVK-
RKRTTNSHSfPRYGNRVLNLS--IDHPEQVWVADITYIRLQ-QEFVYLAVVMDVFTR
AIRGWHLRHRIDQQLTLRALNKALERAT---PEIHHS-----DQGVQYAAAAYMQLLQ
QHQQVQISMAEVBQAWQNGYAERLMRTIKEEEVD--LSDYRNFTEAYEHIEQFLEDVYM
HKRIHSSLGYLTPCEYEQQWRQQ"
/note="IS3_IS150_ORF2      e-value= 2.2e-47 fragment hit
coverage= 76.09%, between model( 389 aa) positions 94;
389 length is 276aa with 23 gaps, 0 stops, absolute
frame= Plus2"
CDS      2501075..2501923
/colour="255 0 0"
/evidence=predicted
/translation="RQMVRLQDQDYSIRQICQVLNYPRSQVYYHA-----RG
QPDEsELKAAIAGV-AGAYPTYGYRRITAQLQORQGYCVNHKRVARLMRQIGIMAKTKV
KRKRTTNSHSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRA
IRGWHLRHRIDQQLT-LRALNKALERATPE-----IHHSQDGVQYAAAAYMQLLQ
HQVQISMAEVBQAWQNGYAERLMRTIKEEEVDL---S-DYRNFTEAYEHIEQFLEDVY
MHKRIHSSLGYLTPCEYEQQWRQQNNHYCMNK"
/note="IS3_IS51_ORF1      e-value= 8.1e-53 complete sequence
hit coverage= 100%, between model( 307 aa) positions 1;
307 length is 283aa with 25 gaps, 0 stops, absolute
frame= Plus2"
CDS      2501075..2501923
/colour="255 0 0"
/evidence=predicted
/translation="RQMVRLQDQDYSIRQICQVLNYPRSQVYYHA-----RG
QPDEsELKAAIAGV-AGAYPTYGYRRITAQLQORQGYCVNHKRVARLMRQIGIMAKTKV
KRKRTTNSHSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRA
IRGWHLRHRIDQQLT-LRALNKALERATPE-----IHHSQDGVQYAAAAYMQLLQ
HQVQISMAEVBQAWQNGYAERLMRTIKEEEVDL---S-DYRNFTEAYEHIEQFLEDVY
MHKRIHSSLGYLTPCEYEQQWRQQNNHYCMNK"
/note="IS3_IS51_ORF1      e-value= 6.3e-51 complete sequence
hit coverage= 100%, between model( 307 aa) positions 1;
307 length is 283aa with 25 gaps, 0 stops, absolute
frame= Plus2"
CDS      2501078..2501893
/colour="255 0 0"
/evidence=predicted
/translation="QMVRLQDQDYSIRQICQVLNYPRSQVYYHARG--QPD-----ES
ELKAAI-AGVAGAYPTYGYRRITAQLQ-RQGYCVNHKRVARLMRQIGIMAKTKVKRKR
TTNSHSfPRYGNRVLNLS-IDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGW
HLSRHRIDQQLTLRALNKALERA-TPE--IHHSQDGVQYAAAAYMQLLQHQVQISMAE
VGQAWQNGYAERLMRTIK-EEVDL--SDYRNFTEAYEHIEQFLEDVYMHKRIHSSLGY
LTPCEYEQQWR"
/note="IS3_IS3_ORF1      e-value= 9.5e-54 complete sequence
hit coverage= 100%, between model( 286 aa) positions 1;
286 length is 272aa with 15 gaps, 0 stops, absolute
frame= Plus2"
CDS      2501078..2501893
/colour="255 0 0"
/evidence=predicted
/translation="QMVRLQDQDYSIRQICQVLNYPRSQVYYHARG--QPD-----ES
ELKAAI-AGVAGAYPTYGYRRITAQLQ-RQGYCVNHKRVARLMRQIGIMAKTKVKRKR
TTNSHSfPRYGNRVLNLS-IDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGW
HLSRHRIDQQLTLRALNKALERA-TPE--IHHSQDGVQYAAAAYMQLLQHQVQISMAE
VGQAWQNGYAERLMRTIK-EEVDL--SDYRNFTEAYEHIEQFLEDVYMHKRIHSSLGY
LTPCEYEQQWR"
/note="IS3_IS3_ORF1      e-value= 2.5e-54 complete sequence
hit coverage= 100%, between model( 286 aa) positions 1;
286 length is 272aa with 15 gaps, 0 stops, absolute

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frame= Plus2"
 CDS 2501081..2501896
 /colour="255 0 0"
 /evidence=predicted
 /translation="MVRQLQDDYSIRQICQVLNYPQRSQVYYHARGQPDESELKAAIAG
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 HSF-PRYGNRvLNLSIDHPEQVWVADITYIRL--QQEFVYLAVVMDVFTRAIRGWHL
 RHIDQQLTLRALNKALER----ATPEIHSDQGVQYAAAAAYMQLLQHQVQISMAEVB
 QAWQNGYAERLMRTIKEEEVDLSDYRNFT--EAYEHIEQFLEDVYMHKRIHSSLGILT
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 /note="IS3_IS150_ORF1 e-value= 6.3e-50 fragment hit
 coverage= 92.81%, between model(306 aa) positions 23;
 306 length is 272aa with 14 gaps, 0 stops, absolute
 frame= Plus2"

CDS 2501090..2501905
 /colour="255 0 0"
 /evidence=predicted
 /translation="QLQDDYSIRQICQVLNYPQRSQVYYHARGQPDE-----SEL
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 EHSFPRY---GNRVLNLSIDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGWHL
 SRHIDQQLTLRALNKALER----ATPE---IHSDQGVQYAAAAAYMQLLQHQVQISM
 AEVQAWQNGYAERLMRTIKEEEVDLSDYRNFTTEAYEHIEQFLEDVYMHKRIHSSLGY
 LTPCEYEQQWRQONN"
 /note="IS3_IS3_ORF2 e-value= 1.2e-64 complete sequence
 hit coverage= 100%, between model(288 aa) positions 1;
 288 length is 272aa with 19 gaps, 0 stops, absolute
 frame= Plus2"

CDS 2501090..2501905
 /colour="255 0 0"
 /evidence=predicted
 /translation="QLQDDYSIRQICQVLNYPQRSQVYYHARGQPDE-----SEL
 KAAIAGVAGayPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKVKRRTTNS
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 AEVQAWQNGYAERLMRTIKEEEVDLSDYRNFTTEAYEHIEQFLEDVYMHKRIHSSLGY
 LTPCEYEQQWRQONN"
 /note="IS3_IS3_ORF2 e-value= 3.3e-65 complete sequence
 hit coverage= 100%, between model(288 aa) positions 1;
 288 length is 272aa with 19 gaps, 0 stops, absolute
 frame= Plus2"

CDS 2501159..2501317
 /colour="255 0 0"
 /evidence=predicted
 /translation="YHARGQPDESELKAAIAGVAGAYPTYGYRRITAQLQRQGY----
 -CVNHKRVARLMRQ"
 /note="IS3_IS2_ORF2 e-value= 9.1e-09 fragment hit
 coverage= 18.87%, between model(302 aa) positions 48;
 104 length is 53aa with 5 gaps, 0 stops, absolute frame=
 Plus2"

CDS 2501225..2501908
 /colour="255 0 0"
 /evidence=predicted
 /translation="YPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKVKRKR
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 HLSRHIDQQLTLRALNKALERATPE-----IHSDQGVQYAAAAAYMQLLQHQVQ
 ISMAEVBQAWQNGYAERLMRTIKEEEVDLSDYrnFTEAYEHIEQFLEDV--YMHKRIH
 SSLGILTTPCEYEQQWRQONNH"
 /note="IS3_IS51_ORF2 e-value= 1.9e-38 fragment hit
 coverage= 74.76%, between model(317 aa) positions 73;
 309 length is 228aa with 11 gaps, 0 stops, absolute

frame= Plus2"
 CDS 2629103..2629798
 /colour="255 0 0"
 /evidence=predicted
 /translation="FKHLHLGMISDIKRKSLPAIARAVGLENHQSLHHFLSESPWVAS
 hLSDkRLDIILKILDGRRLLILLID-----ETGDCKKKGKSTDYVVKR
 QYIGNVGGKENGIVAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
 PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
 AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY"
 /note="IS4 e-value= 4.7e-14 fragment hit coverage=
 51.23%, between model(486 aa) positions 1; 249 length is
 232aa with 27 gaps, 0 stops, absolute frame= Plus2"
 CDS 2629103..2630230
 /colour="255 0 0"
 /evidence=predicted
 /translation="FKHLHLGMISDIKRKSLPAIARAVGLENHQSLHHFLSESPWVAS
 hLSDkRLDIILKILDGRRLLILLID-----ETGDCKKKGKSTDYVVKR
 QYIGNVGGKENGIVAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
 PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
 AEQAVFAEPWQSFERTFSNGT-----TETRYR
 QEIIYGQRHHQKRYWLLTTDPQTLPENSTS-----YVMAA
 APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TLGWADFRMTHYEQIEKWWEIVMSA
 FLMVSLFADVFNDS-----CPVAHQHFAQHPwWDNONG
 WKNLLNNVR--LIIQPLIS----WNLKRWLEVFPSRALKKGF"
 /note="IS4 e-value= 9.9e-07 complete sequence hit
 coverage= 100%, between model(486 aa) positions 1; 486
 length is 376aa with 117 gaps, 0 stops, absolute frame=
 Plus2"
 CDS 2631026..2631439
 /colour="255 0 0"
 /evidence=predicted
 /translation="GRQRFNVLGALNAVTS---ITNHTYINSHSMCLLLAKLALLDPV
 I--PISVILDNARYQKCQLVTDFAEIVD--IELVYLPSSPHLNLIERLWRFVRKECL
 YSKYYSDFHFSFGAIIQOCIDQCNTTEHKAKLTSLLSLKFQSFQK"
 /note="IS630 e-value= 1.1e-17 fragment hit coverage=
 38.56%, between model(376 aa) positions 232; 376 length
 is 138aa with 7 gaps, 0 stops, absolute frame= Plus2"
 CDS 2714843..2715040
 /colour="255 0 0"
 /evidence=predicted
 /translation="GKHKQILLVLDGAGWHTC---KNRVVPPG--IHLKILPPYSPEL
 QPAERLWRLADEPLAN-QCFETLDDLED"
 /note="IS630 e-value= 1.4e-09 fragment hit coverage=
 19.15%, between model(376 aa) positions 275; 346 length
 is 66aa with 6 gaps, 0 stops, absolute frame= Plus2"
 CDS 2845484..2846386
 /colour="255 0 0"
 /evidence=predicted
 /translation="QRFIQGLSPETIHLLSRIHRHSYHHQVRQRAHCILLSFEGFNVT
 ELMSIFAVTRKTVYTWLDDWDNHC---LVGLYDQPGRGRKPKLNDVQ-KEQIRAWAKM
 TP-----HNLNAVLAKEAWNIAVSKTTLKRILKSCSMSWRRLRRVAGQPD
 VEYETK-----RHQLEVLKRQEEKGELdlrYLDESGFCLVPYVPY-AWQEKG-----
 -----ETLGLPSQRSSRFNVLGLMNRHNDL-TSYVFDKSITSAVVVACIDDFSRT
 C--DQHTVVVMDQASVHKNAEIEEKIEDWKakNVEIFWLPTYSPHLNLIEIFWRFMKY
 EWI"
 /note="IS630 e-value= 1.1e-24 fragment hit coverage=
 88.56%, between model(376 aa) positions 1; 333 length is
 301aa with 36 gaps, 0 stops, absolute frame= Plus2"
 CDS 2845484..2846518
 /colour="255 0 0"

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/evidence=predicted
/translation="QRFIQGLSPETIHLLSRIHRHSYHHQVRQRAHCILLSFEGFNVT
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TP-----HNLNAVLAKEAWNIIVSKTTLKRILKSCSMSWRRLRRRVAGQPD
VEYETK-----RHQLEVLKRQEEKGELdlrYLDESGFCLVPYPY-AWQEKG-----
-----ETLGLPSQRSSRFNVLGLMNRHNDL-TSYVFDKSI SAVVACIDDFSRT
C--DQHTVVVMDQASVHKNAEIEEKIEDWKAKNVEIFWLPTYSPHLNLI EIFWRFMKY
EWIEFAAYKCLGSLSLYIDKILKGFgKDYVIDFGXVLINFXLTTQLL"
/note="IS630 e-value= 5.3e-21 complete sequence hit
coverage= 100%, between model( 376 aa) positions 1; 376
length is 345aa with 36 gaps, 2 stops, absolute frame=
Plus2"
CDS 3258380..3259537
/colour="255 0 0"
/evidence=predicted
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vaVPWARKTIRFAEHLTSIGLALGGAAAARLSYQINYGSSRNT----MLRSIAKLEPP
-PAPTPKILGVDDFAFQRG--HHYGTILVDLEHH----RTIALLPDRDAKTLVWLEE
HP-----GVEILSRDRSKTYKSAISEGAPNAIQVADR FHLLKNLQEVLEKVF-----
-----HSNYPALKSVDAALLKS-EVPEPHAPESNEKSKVP-PDE
QgPRsRAH-----RLNNYQOTHALKQOGYXVTDIAHHLGIAKRtAYQ-YLSHPFFPEH
QPYTRKVPTVIEP-YKDY-----LYQEWMagRONSyCTK-----YRdALIGHK
SIKCVKtNDLD"
/note="ISL3 e-value= 4e-07 complete sequence hit
coverage= 100%, between model( 451 aa) positions 1; 451
length is 386aa with 75 gaps, 2 stops, absolute frame=
Plus2"
CDS 3258827..3259108
/colour="255 0 0"
/evidence=predicted
/translation="TPKILGVDDFAFQRG--HHYGTILVDLEHH----RTIALLPDRD
AKTLVWLEEHP-----GVEILSRDRSKTYKSAISEGAPNAIQVADR FHLLKNLQEV
LEKV"
/note="ISL3 e-value= 1.4e-18 fragment hit coverage=
23.50%, between model( 451 aa) positions 157; 262 length
is 94aa with 12 gaps, 0 stops, absolute frame= Plus2"
CDS 3307874..3309085
/colour="255 0 0"
/evidence=predicted
/translation="DELIGENPQPEdiLGESGLLKRLSKRLVERALAGELTHHLQOSS
NDQS-GDeNSNGPRNSRNGYSKKTVOSEQG-EMDLSIPDRCG-EFEPVLVPGQORRI
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LDEV--YPIVYLDALYVNIKVNQVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAK
FWLSVLTDLKNRGTQDILIACCDGLKGFQAIESVYPQTQVQVCIVHLIRNSLRHVPW
KESRAVAADLKPIYQAATLE-ESEAALDAFAH-KWDETYPGISQIWIrhWDNVAPLFQ
YPMAIRKVIYTTNAIESLNRSLRKVIKtKAVFPNEESVYKLMFLAMRNISKR-WTRPI
LNWKAALSHFaiLFPtRFNYXIH"
/note="IS256 e-value= 1.4e-166 complete sequence hit
coverage= 100%, between model( 410 aa) positions 1; 410
length is 404aa with 11 gaps, 1 stops, absolute frame=
Plus2"
CDS 3307874..3309085
/colour="255 0 0"
/evidence=predicted
/translation="DELIGENPQPEdiLGESGLLKRLSKRLVERALAGELTHHLQOSS
NDQS-GDeNSNGPRNSRNGYSKKTVOSEQG-EMDLSIPDRCG-EFEPVLVPGQORRI
A-GLDEKIIALYARGMTTRDIRAQLVELYG--ANISEALISDVTNSVMEEVKDWRSRP
LDEV--YPIVYLDALYVNIKVNQVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAK
FWLSVLTDLKNRGTQDILIACCDGLKGFQAIESVYPQTQVQVCIVHLIRNSLRHVPW

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KESRAVAADLKPIYQAATLE-ESEAALDAFAH-KWDETYPGISQIWIRHWDNVAPLFO
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 LNWKAAALSHFAILFPTRFNXYIH"
 /note="IS256 e-value= 3.7e-167 complete sequence hit
 coverage= 100%, between model(410 aa) positions 1; 410
 length is 404aa with 11 gaps, 1 stops, absolute frame=
 Plus2"
 CDS 3753371..3754582
 /colour="255 0 0"
 /evidence=predicted
 /translation="DELIGENPOPEdiLGESGLLKRLSKRLVERALAGELTHHLQOSS
 NDQS-GDeNSNGPRNSRNGYSKKTVOSEQG-EMDLSIPDRCG-EFEPVLVPGQORRI
 A-GLDEKI IALYARGMTRDIRAQLVELYG--ANISEALISDVTNSVMEEVKDWRSRP
 LDEV--YPIVYLDALYVNIKVNGOVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAK
 FWLSVLTDLKNRGTQDILIAACCDGLKGFPOAIESVYPQTOVQVCIVHLIRNSLRHVPW
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 /note="IS256 e-value= 1.4e-166 complete sequence hit
 coverage= 100%, between model(410 aa) positions 1; 410
 length is 404aa with 11 gaps, 1 stops, absolute frame=
 Plus2"
 CDS 3753371..3754582
 /colour="255 0 0"
 /evidence=predicted
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 A-GLDEKI IALYARGMTRDIRAQLVELYG--ANISEALISDVTNSVMEEVKDWRSRP
 LDEV--YPIVYLDALYVNIKVNGOVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAK
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 LNWKAAALSHFAILFPTRFNXYIH"
 /note="IS256 e-value= 3.7e-167 complete sequence hit
 coverage= 100%, between model(410 aa) positions 1; 410
 length is 404aa with 11 gaps, 1 stops, absolute frame=
 Plus2"
 CDS 3911570..3912511
 /colour="255 0 0"
 /evidence=predicted
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 RRTWRKLHLSVDESTGEILTGVVTTNDVQDGEVFEDLLEGIDD-----EIEQVSAD-G
 AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHGN--NApphpRDQ
 NLRAIRKQGRKRWKKQAHYHRRSLAETTMFRFKTIFGGQVRSRNFNDQATELLLOCAA
 LN-RMIQIAKPETVWVE"
 /note="IS5_IS903 e-value= 1.1e-96 complete sequence hit
 coverage= 100%, between model(347 aa) positions 1; 347
 length is 314aa with 37 gaps, 1 stops, absolute frame=
 Plus2"
 CDS 3911570..3912511
 /colour="255 0 0"
 /evidence=predicted
 /translation="TKNRXPMSYQIRNWSEYNAGLKQRGSVTFWLEQS--AIVHWLET
 TPRQKRGASLTYSDTAISTFETVKCIYGLAGRQTEGFLNSLFELMGIELPVC DHSTVS
 RRKGQLSISLPVIPKQGAIHVVIDSTGVKQVY-----EGEWKTRQHGVS-K
 RRTWRKLHLSVDESTGEILTGVVTTNDVQDGEVFEDLLEGIDD-----EIEQVSAD-G
 AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHGN--NApphpRDQ
 NLRAIRKQGRKRWKKQAHYHRRSLAETTMFRFKTIFGGQVRSRNFNDQATELLLOCAA

LN-RMIQIAKPETVWVE"
 /note="IS5_IS903 e-value= 2.2e-96 complete sequence hit
 coverage= 100%, between model(347 aa) positions 1; 347
 length is 314aa with 37 gaps, 1 stops, absolute frame=
 Plus2"

CDS 4126139..4127350
 /colour="255 0 0"
 /evidence=predicted
 /translation="DELIGENPQPEdiLGESGLLKRLSKRLVERALAGELTHHLQOSS
 NDQS-GDeNSNGPRNSRNGYSKKTQSEQG-EMDLSIPDRCG-EFEPVLVPGQORRI
 A-GLDEKIIALYARGMTTRDIRAQLVELYG--ANISEALISDVTNSVMEEVKDWRSRP
 LDEV--YPIVYLDALYVNIKVNGQVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAK
 FWLSVLTDLKNRGTQDILIAACDGLKGFPOAIESVYPQTVQVCIVHLIRNSLRHVPW
 KESRAVAADLKPIYQAATLE-ESEAALDAFAH-KWDETYPGISQIWIRHWDNVAPLFO
 YPMAIRKVIYTTNAIESLNRSLRKVIKTKAVFPNEESVYKLMFLAMRNISKR-WTRPI
 LNWKAAALSHFAILFPTRFNXYIH"
 /note="IS256 e-value= 1.4e-166 complete sequence hit
 coverage= 100%, between model(410 aa) positions 1; 410
 length is 404aa with 11 gaps, 1 stops, absolute frame=
 Plus2"

CDS 4126139..4127350
 /colour="255 0 0"
 /evidence=predicted
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 A-GLDEKIIALYARGMTTRDIRAQLVELYG--ANISEALISDVTNSVMEEVKDWRSRP
 LDEV--YPIVYLDALYVNIKVNGQVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAK
 FWLSVLTDLKNRGTQDILIAACDGLKGFPOAIESVYPQTVQVCIVHLIRNSLRHVPW
 KESRAVAADLKPIYQAATLE-ESEAALDAFAH-KWDETYPGISQIWIRHWDNVAPLFO
 YPMAIRKVIYTTNAIESLNRSLRKVIKTKAVFPNEESVYKLMFLAMRNISKR-WTRPI
 LNWKAAALSHFAILFPTRFNXYIH"
 /note="IS256 e-value= 3.7e-167 complete sequence hit
 coverage= 100%, between model(410 aa) positions 1; 410
 length is 404aa with 11 gaps, 1 stops, absolute frame=
 Plus2"

CDS 4199279..4199470
 /colour="255 0 0"
 /evidence=predicted
 /translation="ATPIELSQQQHHCLLQIVRQTINPYRLVRRASIILSAASGKSNT
 QISRQWQLDRNQVRYWRQRW"
 /note="IS630 e-value= 8.9e-08 fragment hit coverage=
 17.02%, between model(376 aa) positions 1; 64 length is
 64aa with 0 gaps, 0 stops, absolute frame= Plus2"

CDS 4226972..4227316
 /colour="255 0 0"
 /evidence=predicted
 /translation="KYIVTLTPEERSELIQLTRRRTLSARKMKRAQIIMLADEGHKDD
 TITQMLNAGISTVHRTRQKFVEGG---VEFALNERPRPGGQKKLDSKAEALLIATACS
 DPPTG----CCRWTMQLLAE"
 /note="IS630 e-value= 1.2e-15 fragment hit coverage=
 32.18%, between model(376 aa) positions 1; 121 length is
 115aa with 7 gaps, 0 stops, absolute frame= Plus2"

CDS 4926788..4927030
 /colour="255 0 0"
 /evidence=predicted
 /translation="VKLAELIPWESFESEYADQFSQ---TMGAPAKPFRVALGTLLIK
 EKLGISDAETVEQIRENPYLOYFLGFSEYRESAPFDASML"
 /note="IS5_IS5 e-value= 2.6e-06 fragment hit coverage=
 19.91%, between model(422 aa) positions 23; 106 length
 is 81aa with 3 gaps, 0 stops, absolute frame= Plus2"

CDS 5053775..5054902
/colour="255 0 0"
/evidence=predicted
/translation="PFASIIIEHFSDLDDPRAAHRIEYSLEDIIFITLCAVLGADNWW
EVANYGCSKAQWLKQWIALPNG-----IPSHDTFEWVVFARLKPQQLQOCFLNWTQAI
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IPELLKILELEG-ALVSIIDAMGCQTATAETIIEGQG-DYVLALKGNQGDLYNDVVQLF
dhaCQTQFQIEHDSYQTVKKGHGRIEHRTYWTMGQTDYLLGAE-RWAQLKSIGCVES
CRRQPGHPG---TLQRRYYLLSIESDAQR---FADAVRSHWGIENQLHWILDVGFRED
KLRACQGYSAQNLSVIRHIAANLLQQESTAKCGVKAKRLKAGWDDDDYLVKILSAAAKG
"
/note="ISAs1 e-value= 1.9e-150 complete sequence hit
coverage= 100%, between model(389 aa) positions 1; 389
length is 376aa with 16 gaps, 0 stops, absolute frame=
Plus2"

CDS 5053775..5054902
/colour="255 0 0"
/evidence=predicted
/translation="PFASIIIEHFSDLDDPRAAHRIEYSLEDIIFITLCAVLGADNWW
EVANYGCSKAQWLKQWIALPNG-----IPSHDTFEWVVFARLKPQQLQOCFLNWTQAI
YHLSAGA-LIAIDGKTLRGAIATGEQRSLIHMVSAWASHNRLVLGQRTVEEKSNEITA
IPELLKILELEG-ALVSIIDAMGCQTATAETIIEGQG-DYVLALKGNQGDLYNDVVQLF
dhaCQTQFQIEHDSYQTVKKGHGRIEHRTYWTMGQTDYLLGAE-RWAQLKSIGCVES
CRRQPGHPG---TLQRRYYLLSIESDAQR---FADAVRSHWGIENQLHWILDVGFRED
KLRACQGYSAQNLSVIRHIAANLLQQESTAKCGVKAKRLKAGWDDDDYLVKILSAAAKG
"
/note="ISAs1 e-value= 1.5e-144 complete sequence hit
coverage= 100%, between model(389 aa) positions 1; 389
length is 376aa with 16 gaps, 0 stops, absolute frame=
Plus2"

CDS 5055743..5055940
/colour="255 0 0"
/evidence=predicted
/translation="ASPIELSQQQHHCLTQIVRQTTNPYRLVRRASIILSAAGESNT
QISRQWQLDRNQVRYWRQRWLD"
/note="IS630 e-value= 4e-07 fragment hit coverage=
17.55%, between model(376 aa) positions 1; 66 length is
66aa with 0 gaps, 0 stops, absolute frame= Plus2"

CDS 5176034..5176441
/colour="255 0 0"
/evidence=predicted
/translation="MLLVRPISTESLRLRHRIYHSSRHHQVRQRAHCLILFAQGWPPY
TLASLFSVSPKTVYNWLKAWNNRG---FAGLYNHPPGRGRKPMFNPDQQQQIYEWTOA
SPIQ-----LNQVLAQIEQQWSVRVSKATVKRVLKQMDMSWHR"
/note="IS630 e-value= 8.7e-15 fragment hit coverage=
39.63%, between model(376 aa) positions 1; 149 length is
136aa with 13 gaps, 0 stops, absolute frame= Plus2"

CDS 5176094..5176432
/colour="255 0 0"
/evidence=predicted
/translation="SSRHHQVRQRAHCLILFAQGWPPYTLASLFSVSPKTVYNWLKAW
NNRGFAGLYNH---PGRGRKPMFNPDQQQQIYEWTOASPIQLNQVLAQIEQQWSVR--
-VSKATVKRVLKQMDMS"
/note="IS481 e-value= 3.5e-09 fragment hit coverage=
33.62%, between model(351 aa) positions 1; 118 length is
113aa with 6 gaps, 0 stops, absolute frame= Plus2"

CDS 5341466..5341705
/colour="255 0 0"
/evidence=predicted
/translation="RNQQHYIRQLTAIKLLNEGHSRTQVSEQVGCSDTLTRWMDKY

LDGGLOGLVQPI--RHQKPSRLSPREEQQQLKEMVLTQR"
 /note="IS481 e-value= 1.2e-07 fragment hit coverage=
 23.36%, between model(351 aa) positions 1; 82 length is
 80aa with 2 gaps, 0 stops, absolute frame= Plus2"
 CDS 5341493..5341900
 /colour="255 0 0"
 /evidence=predicted
 /translation="RLTAIKLLNEGHSRTQVSEQVGCSDTLTRWMDKYLDGG--LQ
 GLVQPIRHQKPSRLSPREEQQQLKEMVLTQRPTDYGIDRNMWTGAILAVVIEQRFEVQL
 KDSRIYELLSELGLSYQRAHRDYA--NADLNAQKEWVAA"
 /note="IS630 e-value= 1.9e-29 fragment hit coverage=
 37.50%, between model(376 aa) positions 30; 170 length
 is 136aa with 5 gaps, 0 stops, absolute frame= Plus2"
 CDS 5545037..5545732
 /colour="255 0 0"
 /evidence=predicted
 /translation="FKHLHLGMIInDIKRKSLPAIARAVGLENHQSLHHFLSESPWVAS
 hLSDkSLDIILKILDGRRLILLID-----ETGDCKKGKSTDYVVKR
 QYIGNVGGKKEGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEGDEYLSK
 PQIAAGMIRQLQGMGFCELVADSLYGAAQTNFVNVLEELKLPYILAIRSNHAVWLP
 AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY"
 /note="IS4 e-value= 2.3e-13 fragment hit coverage=
 51.23%, between model(486 aa) positions 1; 249 length is
 232aa with 27 gaps, 0 stops, absolute frame= Plus2"
 CDS 5545037..5546200
 /colour="255 0 0"
 /evidence=predicted
 /translation="FKHLHLGMIInDIKRKSLPAIARAVGLENHQSLHHFLSESPWVAS
 hLSDkSLDIILKILDGRRLILLID-----ETGDCKKGKSTDYVVKR
 QYIGNVGGKKEGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEGDEYLSK
 PQIAAGMIRQLQGMGFCELVADSLYGAAQTNFVNVLEELKLPYILAIRSNHAVWLP
 AEQAVFAEPWQSFERTFSNGT-----TETRYR
 QEIIYGQRHHQKRYWLLTTDPQTLPENSTS-----YVMAA
 APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TLGWADFRMTHYEQIEKWWEIVMSA
 FLMVSLFADVFNDSCP-----VANQHFaQHPWWDNONGWKNLLNNV
 RLIIQPLISWNLKSWLE--VFPIRALKKGFEQLTSKMEAFCC"
 /note="IS4 e-value= 1.2e-06 complete sequence hit
 coverage= 100%, between model(486 aa) positions 1; 486
 length is 388aa with 105 gaps, 0 stops, absolute frame=
 Plus2"
 CDS 5653406..5653864
 /colour="255 0 0"
 /evidence=predicted
 /translation="MTHRKLSHSVWECKYHVVFVPKYRKGRITYGQIRXNSGDIFH-EL
 ARHKKNVIEEGHLMVDHVMLLSIPLKYSVSNVVGKSAIYIARELGNSRNA-TG
 HKFWSRGYFVSTVG-RDEAMIRRYIRHQGQEEQKLEQLNLFraXPKSPLRGSNS"
 /note="IS200 e-value= 6.3e-51 complete sequence hit
 coverage= 100%, between model(154 aa) positions 1; 154
 length is 153aa with 3 gaps, 2 stops, absolute frame=
 Plus2"
 CDS 5653406..5653864
 /colour="255 0 0"
 /evidence=predicted
 /translation="MTHRKLSHSVWECKYHVVFVPKYRKGRITYGQIRXNSGDIFH-EL
 ARHKKNVIEEGHLMVDHVMLLSIPLKYSVSNVVGKSAIYIARELGNSRNA-TG
 HKFWSRGYFVSTVG-RDEAMIRRYIRHQGQEEQKLEQLNLFraXPKSPLRGSNS"
 /note="IS200 e-value= 5.1e-50 complete sequence hit
 coverage= 100%, between model(154 aa) positions 1; 154
 length is 153aa with 3 gaps, 2 stops, absolute frame=
 Plus2"

CDS 5653406..5653861
/colour="255 0 0"
/evidence=predicted
/translation="MTHRKLSHVSWECKYHVVFVVKYRKGRIYGO-IRXNSGDIFHEL
ARHKKNVIEEGHLMPPDHVHMLLSIPLKYSVSNVVGYVKGKSAIYIARELGNSRNA-TG
HKFWSRGYFVSTVG-RDEAMIRRYIRHQEQEEQKLEQLNLfrAXPKSPLRGSN"
/note="IS200_IS605 e-value= 2.2e-50 complete sequence hit
coverage= 100%, between model(153 aa) positions 1; 153
length is 152aa with 3 gaps, 2 stops, absolute frame=
Plus2"

CDS 5653406..5653861
/colour="255 0 0"
/evidence=predicted
/translation="MTHRKLSHVSWECKYHVVFVVKYRKGRIYGO-IRXNSGDIFHEL
ARHKKNVIEEGHLMPPDHVHMLLSIPLKYSVSNVVGYVKGKSAIYIARELGNSRNA-TG
HKFWSRGYFVSTVG-RDEAMIRRYIRHQEQEEQKLEQLNLfrAXPKSPLRGSN"
/note="IS200_IS605 e-value= 5.6e-51 complete sequence hit
coverage= 100%, between model(153 aa) positions 1; 153
length is 152aa with 3 gaps, 2 stops, absolute frame=
Plus2"

CDS 5653406..5653861
/colour="255 0 0"
/evidence=predicted
/translation="-MTHRKLSHVSWECKYHVVFVVKYRKGRIYGOIRXNSGDIFHEL
ARHKKNVIEEGHLMPPDHVHMLLSIPLKYSVSNVVGYVKGKSAIYIARELGNSRN-ATG
HKFWSRGYFVSTVGRDEAMIRRYIRHQEQEEQKLEQLNLfrAXPKSPLRGSN"
/note="IS605 e-value= 6.9e-45 complete sequence hit
coverage= 100%, between model(152 aa) positions 1; 152
length is 152aa with 2 gaps, 2 stops, absolute frame=
Plus2"

CDS 5653406..5653861
/colour="255 0 0"
/evidence=predicted
/translation="-MTHRKLSHVSWECKYHVVFVVKYRKGRIYGOIRXNSGDIFHEL
ARHKKNVIEEGHLMPPDHVHMLLSIPLKYSVSNVVGYVKGKSAIYIARELGNSRN-ATG
HKFWSRGYFVSTVGRDEAMIRRYIRHQEQEEQKLEQLNLfrAXPKSPLRGSN"
/note="IS605 e-value= 8.2e-45 complete sequence hit
coverage= 100%, between model(152 aa) positions 1; 152
length is 152aa with 2 gaps, 2 stops, absolute frame=
Plus2"

CDS 5747213..5747476
/colour="255 0 0"
/evidence=predicted
/translation="LFYFLMQCPLCGHPK-THKHGKTSKGSQRYRCPHCQQTFS-EtF
DTLCYRRQISPETIQITILQAHVEGSSLRGLSRITGVAYNTCVSVVR"
/note="IS1_ORF1 e-value= 1.7e-15 fragment hit coverage=
36.40%, between model(239 aa) positions 1; 87 length is
88aa with 2 gaps, 0 stops, absolute frame= Plus2"

CDS 5896091..5896333
/colour="255 0 0"
/evidence=predicted
/translation="VKLAELIPWESFESEYADQFSQ---TMGAPAKPFRVALGTLIIK
EKLGISDAETVEQIRENPYLQYFLGFSEYRESAPFDASML"
/note="IS5_IS5 e-value= 2.6e-06 fragment hit coverage=
19.91%, between model(422 aa) positions 23; 106 length
is 81aa with 3 gaps, 0 stops, absolute frame= Plus2"

CDS 5908769..5909158
/colour="255 0 0"
/evidence=predicted
/translation="FFMDESGFSLVPCIPY-GWQPIG-----TYL-EIPT

RSSKRLNVLGFLSRROGL--HAYTSEQTITSEVVShCIDTFFADV--ELPTVIVVDQA
 PIHTS_QsiyEMKAWEAERG--ITLFELPSYSPHLNLIERLWQFMKYQWI"
 /note="IS630 e-value= 6.5e-11 fragment hit coverage=
 39.10%, between model(376 aa) positions 187; 333 length
 is 130aa with 21 gaps, 0 stops, absolute frame= Plus2"
 CDS 5942117..5942839
 /colour="255 0 0"
 /evidence=predicted
 /translation="----MAHLSPEsfXCRATSEVVPSRST-----ISGPSILa
 risdLFPHCWRLGSLXIN---GLPYSPpGRDRS-----DELRTLp----PTRQETSNT
 RIXAAXCCRDGCDXDTDXTS_pKRTKSVLFRKKRHTLKCQIIADRNTLEVICLSFGPG
 RRHDFQIFKGS_{GI}HIHPNTEslQDSGYQGIAAYHANSYVPFKKpQHGEltSLQREYnc
 ALSQERM_{GI}EHINrSLKISRILSERYRNRRCRYALRCNLIAALYNHEL"
 /note="IS5_ISL2 e-value= 1e-38 complete sequence hit
 coverage= 100%, between model(260 aa) positions 1; 260
 length is 241aa with 25 gaps, 6 stops, absolute frame=
 Plus2"
 CDS 5942438..5942839
 /colour="255 0 0"
 /evidence=predicted
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 KISRILSERYRNRRCRYALRCNLIAALYNHEL"
 /note="IS5_ISL2 e-value= 2.1e-57 fragment hit coverage=
 51.54%, between model(260 aa) positions 127; 260 length
 is 134aa with 0 gaps, 0 stops, absolute frame= Plus2"
 CDS 6104879..6105265
 /colour="255 0 0"
 /evidence=predicted
 /translation="YADESGMDHRDEYDY-AYGPKGE-----RVYA-LKTG-
 RRSGRVNMIAALRAKQL--MAPFTIEGACNRTVFEIWLercLIPMLKPGQKLVI--DN
 ATFHKGGRIQELVEKAG--CEVWYLPPYSPDLNKIERSWSWIKSRIR"
 /note="IS630 e-value= 6.9e-14 fragment hit coverage=
 38.83%, between model(376 aa) positions 188; 333 length
 is 129aa with 20 gaps, 0 stops, absolute frame= Plus2"
 CDS 6243806..6244048
 /colour="255 0 0"
 /evidence=predicted
 /translation="VKLAELIPWESFESEYADQFSQ---TMGAPAKPFRVALGTIIK
 EKLGISDAETVEQIRENPYLQYFLGFSEYRESAPFDASML"
 /note="IS5_IS5 e-value= 2.6e-06 fragment hit coverage=
 19.91%, between model(422 aa) positions 23; 106 length
 is 81aa with 3 gaps, 0 stops, absolute frame= Plus2"
 CDS 6501464..6501685
 /colour="255 0 0"
 /evidence=predicted
 /translation="YASDLTAEQWELLEPLIPAAK-----PGGRPRTTDMLSVLNA
 ILYLVVTGCQWRQLPHDFPCWSTVYSYFRRWRDDGTW"
 /note="IS5_IS1031 e-value= 3.3e-39 fragment hit coverage=
 27.46%, between model(295 aa) positions 20; 100 length
 is 74aa with 7 gaps, 0 stops, absolute frame= Plus2"
 CDS 6501473..6501685
 /colour="255 0 0"
 /evidence=predicted
 /translation="DLTAEQWELLEPLIPAAKP-GGRPRT-TDMLSVLNAILYLVVTG
 CQWRQLPHDFPCWSTVYSYFRRWRDDGTW"
 /note="IS5_IS427 e-value= 7.3e-19 fragment hit coverage=
 24.66%, between model(296 aa) positions 125; 197 length
 is 71aa with 2 gaps, 0 stops, absolute frame= Plus2"
 CDS 316002..316943


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/colour="255 0 0"
/evidence=predicted
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TPRQKRGASLTYSDTAISTFETVKCIYGLAGRQTEGFLNSLFELMGIELPVC DHSTVS
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RRTWRKLHLSVDESTGEILTGVVTTNDVQDGEVFEDLLEGIDD-----EIEQVSAD-G
AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHGN--NApphpRDQ
NLRAIRKQGRKRWKKQAHYHRRSLAETTMFRFKTIFGGQVRSRNFNDQATELLLOCAA
LN-RMIQIAKPETVWVE"
/note="IS5_IS903 e-value= 1.1e-96 complete sequence hit
coverage= 100%, between model( 347 aa) positions 1; 347
length is 314aa with 37 gaps, 1 stops, absolute frame=
Plus3"
CDS 316002..316943
/colour="255 0 0"
/evidence=predicted
/translation="TKNRXPMSYQIRNWSEYNAGLKQRGSVTFWLEQS--AIVHWLET
TPRQKRGASLTYSDTAISTFETVKCIYGLAGRQTEGFLNSLFELMGIELPVC DHSTVS
RRKGQLSISLPIPKQGAIHVVIDSTGVKVYG-----EGEWKTRQHGVS-K
RRTWRKLHLSVDESTGEILTGVVTTNDVQDGEVFEDLLEGIDD-----EIEQVSAD-G
AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHGN--NApphpRDQ
NLRAIRKQGRKRWKKQAHYHRRSLAETTMFRFKTIFGGQVRSRNFNDQATELLLOCAA
LN-RMIQIAKPETVWVE"
/note="IS5_IS903 e-value= 2.2e-96 complete sequence hit
coverage= 100%, between model( 347 aa) positions 1; 347
length is 314aa with 37 gaps, 1 stops, absolute frame=
Plus3"
CDS 469320..469814
/colour="255 0 0"
/evidence=predicted
/translation="LEKTGIESKKKTYGYR--ERD--ETQR---QAFIERLQTKHP--
HQIVYVDEAGIDNRADYPY-GYCPVG-----QRFYD-LKSG-KRTERVSFIA
ALKEGQL--FSPMTFEGSCNRLLEFAWLQOSLI-SQLQLgdVIVIDNASFHGQRIIE
IVAEAG--CEIWYLPSPDLNKIERWWFVLKN"
/note="IS630 e-value= 3e-16 fragment hit coverage=
50.80%, between model( 376 aa) positions 140; 330 length
is 165aa with 28 gaps, 0 stops, absolute frame= Plus3"
CDS 471168..471305
/colour="255 0 0"
/evidence=predicted
/translation="WQTDGWEGYSRQLPNE---TIHHVSKALTQRLERTNGILRQOAG
RWHRR"
/note="IS1_ORF2 e-value= 3.3e-13 fragment hit coverage=
20.68%, between model( 237 aa) positions 164; 212 length
is 46aa with 3 gaps, 0 stops, absolute frame= Plus3"
CDS 516039..516734
/colour="255 0 0"
/evidence=predicted
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hLSDkRLDIILKILDGRRILLID-----ETGDCKKGKSTDYVKR
QYIGNVGKKENGIVAVTAYGLFQGMILPLSFVYKPR-----ErLKEEDEYLSK
PQIAAGMIRQLQGMGFCELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY"
/note="IS4 e-value= 4.7e-14 fragment hit coverage=
51.23%, between model( 486 aa) positions 1; 249 length is
232aa with 27 gaps, 0 stops, absolute frame= Plus3"
CDS 516039..517166
/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMI sDIKRKSLPAIARAVGLENHQSLHHLFSESPWVAS

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 length is 376aa with 117 gaps, 0 stops, absolute frame=
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 /evidence=predicted
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 /note="IS1_ORF2 e-value= 1.8e-11 fragment hit coverage=
 20.68%, between model(237 aa) positions 164; 212 length
 is 46aa with 3 gaps, 0 stops, absolute frame= Plus3"
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 /evidence=predicted
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 -----DRHPSPSAAICDAQSVkvgnpRCHLIGFDGGKM
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 /note="IS5_IS427 e-value= 8.6e-07 complete sequence hit
 coverage= 100%, between model(296 aa) positions 1; 296
 length is 259aa with 44 gaps, 10 stops, absolute frame=
 Plus3"

CDS 972543..973412
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/evidence=predicted
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-----VKGRKRHVLD-TL
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/note="IS5_IS5 e-value= 1.8e-09 complete sequence hit
coverage= 100%, between model(422 aa) positions 1; 422
length is 290aa with 140 gaps, 4 stops, absolute frame=
Plus3"

CDS 972582..973433
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/evidence=predicted
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/note="IS5_IS1031 e-value= 1.8e-111 complete sequence hit
coverage= 100%, between model(295 aa) positions 1; 295
length is 284aa with 14 gaps, 3 stops, absolute frame=
Plus3"

CDS 972624..973433
/colour="255 0 0"
/evidence=predicted
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SLX"
/note="IS5_IS1031 e-value= 1.2e-113 fragment hit
coverage= 93.56%, between model(295 aa) positions 20;
295 length is 270aa with 9 gaps, 2 stops, absolute frame=
Plus3"

CDS 972633..972872
/colour="255 0 0"
/evidence=predicted
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/note="IS5_IS427 e-value= 2e-19 fragment hit coverage=
27.70%, between model(296 aa) positions 125; 206 length
is 80aa with 2 gaps, 0 stops, absolute frame= Plus3"

CDS 1016775..1017812
/colour="255 0 0"
/evidence=predicted
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-----FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL
DPV-IPISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSRHLNLIERLWRFVRKE
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/note="IS630 e-value= 3.1e-22 complete sequence hit"

coverage= 100%, between model(376 aa) positions 1; 376 length is 346aa with 33 gaps, 0 stops, absolute frame= Plus3"

CDS 1016775..1017812
/colour="255 0 0"
/evidence=predicted
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-EKIEEQEQFRHTRLEPLleeAQRQERLVFFVDAAHFVHRAYLGF-VWCITRI-----
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/note="IS630 e-value= 3.5e-21 complete sequence hit
coverage= 100%, between model(376 aa) positions 1; 376
length is 346aa with 33 gaps, 0 stops, absolute frame=
Plus3"

CDS 1016835..1016993
/colour="255 0 0"
/evidence=predicted
/translation="HHPHPRVQRRMEVLYLKSQGLSHTQICQLCQISRPTLAKTLRQY
QGGIEGLK"
/note="IS481 e-value= 3.7e-09 fragment hit coverage=
15.10%, between model(351 aa) positions 1; 53 length is
53aa with 0 gaps, 0 stops, absolute frame= Plus3"

CDS 1099857..1100243
/colour="255 0 0"
/evidence=predicted
/translation="YADESGMDHRDEYDY-AYGPKGE-----RVYA-LKTG-
RRSGRVNMIAALRAKQL--MAPFTIEGACNRTVFELwLERCLIPvlKPGQKLVI--DN
ATFHKGQIQELVEKAG--CEVWYLPPYSPDLNKIERSWSWIKSRIR"
/note="IS630 e-value= 1.1e-13 fragment hit coverage=
38.83%, between model(376 aa) positions 188; 333 length
is 129aa with 20 gaps, 0 stops, absolute frame= Plus3"

CDS 1100496..1101191
/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMIIsDIKRKSLPAIARAVGLENHQSLHHLFSESPWVAS
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AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY"
/note="IS4 e-value= 4.7e-14 fragment hit coverage=
51.23%, between model(486 aa) positions 1; 249 length is
232aa with 27 gaps, 0 stops, absolute frame= Plus3"

CDS 1100496..1101623
/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMIIsDIKRKSLPAIARAVGLENHQSLHHLFSESPWVAS
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AEQAVFAEPWQSFERTFSNGT-----TETRYR
QEIIYGQRHHQKRYWLLTTDPQTLPENSTS-----YVMAA
APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TLGWADFRMTHYEQIEKWWEIVMSA
FLMVSLFADVFNDS-----CPVAHQHFAQHPwWDNQNG
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/note="IS4 e-value= 9.9e-07 complete sequence hit
coverage= 100%, between model(486 aa) positions 1; 486
length is 376aa with 117 gaps, 0 stops, absolute frame=

Plus3"
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/evidence=predicted
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CWQ-CFFWVSDGNPVYPGFIPEG----DQIVSKTYMTRVEGENTRLRHYLARLHRKTL
CYSKSV DMLKHSIRLLI-HYLKF"
/note="IS1_ORF2 e-value= 4.1e-24 complete sequence hit
coverage= 100%, between model(237 aa) positions 1; 237
length is 228aa with 13 gaps, 1 stops, absolute frame=
Plus3"

CDS 1211586..1212233
/colour="255 0 0"
/evidence=predicted
/translation="QCGGQH-IHKNGHRR-GKQNHICVACGRQFL--STYSKRGYSDW
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DMLKHSIRLL---IHYL"
/note="IS1_ORF1 e-value= 5.5e-39 fragment hit coverage=
96.23%, between model(239 aa) positions 10; 239 length
is 216aa with 19 gaps, 0 stops, absolute frame= Plus3"

CDS 1211586..1212233
/colour="255 0 0"
/evidence=predicted
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RPLWqaIVCWQCFWVSDGNPVYpgFIPEgDQIVSKTYMTRVEGENTRLRHYLARLHR
KTL CYSKSV DMLKHSIRLL---IHYL"
/note="IS1_ORF1 e-value= 5.6e-36 complete sequence hit
coverage= 100%, between model(239 aa) positions 1; 239
length is 216aa with 28 gaps, 0 stops, absolute frame=
Plus3"

CDS 1211838..1212239
/colour="255 0 0"
/evidence=predicted
/translation="DPDDIPQVGELDELETFVVGQKRNVVWVWTVVDHFHFGILGWVVG
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/note="IS1_ORF2 e-value= 1.9e-31 fragment hit coverage=
59.07%, between model(237 aa) positions 98; 237 length
is 134aa with 6 gaps, 0 stops, absolute frame= Plus3"

CDS 1474827..1475525
/colour="255 0 0"
/evidence=predicted
/translation="RMAYPSSrSLKCRASSKVVSPXSTIGGSS-----ILAGIS
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CRCDGCDXNAHXTSPEKTKSVLF----REKKRHTLKCQIIADRNTLEIICLSFGPGRR
HDFQIFKVSGIHIHPNTESLQDSGYQGIAAYHANSYVPFKKSQHSELTSLOREYNRAL
SQERMGIEHIK-----SQPEDFQNSVGALPXSSSSLHAAVXL"
/note="IS5_ISL2 e-value= 5e-10 complete sequence hit
coverage= 100%, between model(260 aa) positions 1; 260
length is 233aa with 31 gaps, 7 stops, absolute frame=
Plus3"

CDS 1475154..1475444
/colour="255 0 0"
/evidence=predicted

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/translation="KKRHTLKCQIIADRNTLEIICLSFGPGRRHDFQIFKVSIGIHIHP
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/note="IS5_ISL2 e-value= 4.6e-35 fragment hit coverage=
37.31%, between model( 260 aa) positions 128; 224 length
is 97aa with 0 gaps, 0 stops, absolute frame= Plus3"
CDS 1500237..1500374
/colour="255 0 0"
/evidence=predicted
/translation="WQTDGWEGYARQLPDE---VVHEVSKALTQRLERTNGIVRQQTG
RWHRR"
/note="IS1_ORF2 e-value= 1.8e-11 fragment hit coverage=
20.68%, between model( 237 aa) positions 164; 212 length
is 46aa with 3 gaps, 0 stops, absolute frame= Plus3"
CDS 1586793..1587056
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/note="IS1_ORF1 e-value= 1.7e-15 fragment hit coverage=
36.40%, between model( 239 aa) positions 1; 87 length is
88aa with 2 gaps, 0 stops, absolute frame= Plus3"
CDS 2912997..2913938
/colour="255 0 0"
/evidence=predicted
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AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHGN--NApphpRDQ
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LN-RMIQIAKPETVWVE"
/note="IS5_IS903 e-value= 1.1e-96 complete sequence hit
coverage= 100%, between model( 347 aa) positions 1; 347
length is 314aa with 37 gaps, 1 stops, absolute frame=
Plus3"
CDS 2912997..2913938
/colour="255 0 0"
/evidence=predicted
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RRTWRKLHLSVDESTGEILTGVVTTNDVQDGEVFEDLLEGIDD-----EIEQVSAD-G
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LN-RMIQIAKPETVWVE"
/note="IS5_IS903 e-value= 2.2e-96 complete sequence hit
coverage= 100%, between model( 347 aa) positions 1; 347
length is 314aa with 37 gaps, 1 stops, absolute frame=
Plus3"
CDS 2982312..2983067
/colour="255 0 0"
/evidence=predicted
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SQERMGIEHINRSLKIFRILSERYRNRRRRYALRCNLIAALYNHEL"
/note="IS5_ISL2 e-value= 4.5e-45 complete sequence hit
coverage= 100%, between model( 260 aa) positions 1; 260
length is 252aa with 12 gaps, 6 stops, absolute frame=

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Plus3"
CDS 2982666..2983067
/colour="255 0 0"
/evidence=predicted
/translation="KKKRHTLKCQIIANRSTLEIICLNFGKGRRHDFQIFKVSIGIHH
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/note="IS5_ISL2 e-value= 5.1e-63 fragment hit coverage=
51.54%, between model(260 aa) positions 127; 260 length
is 134aa with 0 gaps, 0 stops, absolute frame= Plus3"

CDS 3307083..3307769
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/evidence=predicted
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LDEV--YPIVYLDALYVNIKVNGQVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAK
FWLSVLTDLKNRGTQDILM"
/note="IS256 e-value= 1.9e-79 fragment hit coverage=
56.59%, between model(410 aa) positions 1; 232 length is
229aa with 8 gaps, 0 stops, absolute frame= Plus3"

CDS 3307083..3309647
/colour="255 0 0"
/evidence=predicted
/translation="DELIGENPOPEdiLGESGLLKRLSKRLVERALAGELTHHLQOSS
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LDEV--YPIVYLDALYVNIKVNGQVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAK
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krfslmkslstnxcfxrxgifrsdgpqdfxigrrrcpillfcsqhdstieytaaytki
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FPTRFNXYXH"
/note="IS256 e-value= 4.1e-83 complete sequence hit
coverage= 100%, between model(410 aa) positions 1; 410
length is 855aa with 11 gaps, 1 stops, absolute frame=
Plus3"

CDS 3309117..3309647
/colour="255 0 0"
/evidence=predicted
/translation="LIACCDGLKGFPQAIESVYPQTQVQVCIVHLIRNSLRHVPWKES
RAVAADLKPIYQAATLE-ESEAALDAFAH-KWDETYPGISQIWIHWDNVAPLQYPM
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KAALSHFAILFPTRFNXYXH"
/note="IS256 e-value= 5.1e-77 fragment hit coverage=
43.90%, between model(410 aa) positions 231; 410 length
is 177aa with 3 gaps, 1 stops, absolute frame= Plus3"

CDS 3315393..3316334
/colour="255 0 0"
/evidence=predicted
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RRTWRKLHLSVDESTGEILTGVVTTNDVQDGEVFEDLLEGIDD-----EIEQVSAD-G
AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHGN--NApphpRDQ
NLRAIRKQGRKRWKKQAHYHRRSLAETTMFRFKTIFGGQVRSRNFNDQATELLLOCAA
LN-RMIQIAKPETVWVE"
/note="IS5_IS903 e-value= 9.4e-98 complete sequence hit
coverage= 100%, between model( 347 aa) positions 1; 347
length is 314aa with 37 gaps, 1 stops, absolute frame=
Plus3"
CDS 3315393..3316334
/colour="255 0 0"
/evidence=predicted
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NLRAIRKQGRKRWKKQAHYHRRSLAETTMFRFKTIFGGQVRSRNFNDQATELLLOCAA
LN-RMIQIAKPETVWVE"
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coverage= 100%, between model( 347 aa) positions 1; 347
length is 314aa with 37 gaps, 1 stops, absolute frame=
Plus3"
CDS 3758064..3758450
/colour="255 0 0"
/evidence=predicted
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/note="IS630 e-value= 1.1e-13 fragment hit coverage=
38.83%, between model( 376 aa) positions 188; 333 length
is 129aa with 20 gaps, 0 stops, absolute frame= Plus3"
CDS 4200300..4200518
/colour="255 0 0"
/evidence=predicted
/translation="RIRFVYIPKHTSXLNQIECWFSILVRRLLIRRGNFTSTDDLQORI
LDFIEYFNHtMAKPFQWQFKGFTPHGXLM"
/note="IS630 e-value= 5.4e-08 fragment hit coverage=
19.15%, between model( 376 aa) positions 305; 376 length
is 73aa with 0 gaps, 2 stops, absolute frame= Plus3"
CDS 4200348..4200458
/colour="255 0 0"
/evidence=predicted
/translation="IECWFSILVRRLLIR--RGNFTSTDDLQORILDFIEYFNH"
/note="IS3_IS150_ORF2 e-value= 4.8e-09 fragment hit
coverage= 10.03%, between model( 389 aa) positions 329;
367 length is 37aa with 2 gaps, 0 stops, absolute frame=
Plus3"
CDS 4250727..4251422
/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMIIsDIKRKSLPAIARAVGLENHQSLHHFLSESPWVAS
hLSDkRLDIILKILDGRRLILLID-----ETGDCKKGKSTDYVKR
QYIGNVGKKENGIvAVTAYGLFQGMILPLSFVYKPR-----ErLKEEDEYLSK
PQIAAGMIRQLQGMGFCELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY"
/note="IS4 e-value= 4.7e-14 fragment hit coverage=
51.23%, between model( 486 aa) positions 1; 249 length is
232aa with 27 gaps, 0 stops, absolute frame= Plus3"
CDS 4250727..4251854
/colour="255 0 0"

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/evidence=predicted
/translation="FKHLHLGMI sDIKRKSLPAIARAVGLENHQSLHHFLSESPWVAS
hLSDkRLDIILKILDGRRLLILLID-----ETGDCKKKGKSTDYVKR
QYIGNVGGKENGIVAVTAYGLFQGMILPLSFVYKPR-----ErLKEEDEYLSK
PQIAAGMIRQLQGMGFCELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
AEQAVFAEPWQSFERTFSNGT-----TETRYR
QEIIYGQRHHQKRYWLLTTDPQTLPENSTS-----YVMAA
APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TLGWADFRMTHYEQIEKWWEIVMSA
FLMVSLFADVFNDS-----CPVAHQHFAQHPWWDNQNQ
WKNLLNNVR--LIIQPLIS----WNLLKRWLEVFPSRALKKGf"
/note="IS4 e-value= 9.9e-07 complete sequence hit
coverage= 100%, between model( 486 aa) positions 1; 486
length is 376aa with 117 gaps, 0 stops, absolute frame=
Plus3"
CDS 4281402..4281956
/colour="255 0 0"
/evidence=predicted
/translation="HLSKTTQVNPKNQGLNINKVACSSQSW-----NDCLLMPV
SLKFFPLSLXFLLISEYMNSGL-----ISLMPKHKHHLR-----LFFTTYPE
XspACVKQHDTKQRPHEPQA-----VLLSLRXQIKITLX-----
-----RLLYVPLKKPQQGELTPLEXEYNRALSQ
ERMGIEHINRSLKIFRILSERYRSRRLALRCNLIAAIYNYEL"
/note="IS5_ISL2 e-value= 3.9e-10 complete sequence hit
coverage= 100%, between model( 260 aa) positions 1; 260
length is 185aa with 77 gaps, 5 stops, absolute frame=
Plus3"
CDS 4281750..4281956
/colour="255 0 0"
/evidence=predicted
/translation="YVPLKKPQQGELTPLEXEYNRALSQERMGIEHINRSLKIFRILS
ERYRSRRLALRCNLIAAIYNYEL"
/note="IS5_ISL2 e-value= 3.1e-31 fragment hit coverage=
26.54%, between model( 260 aa) positions 192; 260 length
is 69aa with 0 gaps, 1 stops, absolute frame= Plus3"
CDS 5056764..5056982
/colour="255 0 0"
/evidence=predicted
/translation="RIRFVYIPKHTSWLNQIECWFSILVRRLLIRRGNFTSKDDLQORI
LEFIEYFNHtMAKPFQWQFKGFQPRXLXLM"
/note="IS630 e-value= 4e-10 fragment hit coverage=
19.15%, between model( 376 aa) positions 305; 376 length
is 73aa with 0 gaps, 1 stops, absolute frame= Plus3"
CDS 5056812..5056922
/colour="255 0 0"
/evidence=predicted
/translation="IECWFSILVRRLLIR--RGNFTSKDDLQORILEFIEYFNH"
/note="IS3_IS150_ORF2 e-value= 2e-08 fragment hit
coverage= 10.03%, between model( 389 aa) positions 329;
367 length is 37aa with 2 gaps, 0 stops, absolute frame=
Plus3"
CDS 5147340..5148377
/colour="255 0 0"
/evidence=predicted
/translation="PMIKIDFTAEEIQQLNYERYHHHPHPRVQRRMEVLYLKSQGLSHT
QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQPSLLNAHS-DSVRAYFEQH
PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRYRKVGVYPGKSSLP
-EKIEEQEQFRHTRLEPLleeAQRQERLVFVDAAHFVHRAYLGF-VWCITRI-----
-----FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL
DPV-IPISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVRKE
CLYSKYYADFPAPKGAIQCIDQCNGEHKAKLTLLSLKQSFKK"

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/note="IS630 e-value= 6.7e-25 complete sequence hit
coverage= 100%, between model( 376 aa) positions 1; 376
length is 346aa with 33 gaps, 0 stops, absolute frame=
Plus3"
CDS 5147340..5148377
/colour="255 0 0"
/evidence=predicted
/translation="PMIKIDFTAEEIQQLNYERYHHPHPRVQRRMEVLYLKSQGLSHT
QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQGQPSLLNAHS-DSVRAYFEQH
PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRYRKVGVYVPGKSSLP
-EKIEEQEQFRHTRLEPLleeAQRQERLVFFVDAAHFVHRAYLGF-VWCITRI-----
-----FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL
DPV-IPISVILDNARYQKCOLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVVRKE
CLYSKYADFPFAFKGAIQQCIDQCNGEHKAKLTLLSLKFQSFKK"
/note="IS630 e-value= 4.9e-24 complete sequence hit
coverage= 100%, between model( 376 aa) positions 1; 376
length is 346aa with 33 gaps, 0 stops, absolute frame=
Plus3"
CDS 5147400..5147558
/colour="255 0 0"
/evidence=predicted
/translation="HHPHPRVQRRMEVLYLKSQGLSHTQICQLCQISRPTLAKTLRQY
QGGIEGLK"
/note="IS481 e-value= 3.7e-09 fragment hit coverage=
15.10%, between model( 351 aa) positions 1; 53 length is
53aa with 0 gaps, 0 stops, absolute frame= Plus3"
CDS 5209563..5210690
/colour="255 0 0"
/evidence=predicted
/translation="PFASIIIEHFSDLDDPRAAHRIEYSLEDIIIIITLCAVLGADNWX
EVANYGRSKAQWLKQWIALPNG-----VPSHDTFEWVVFARLKPQQLQOCFLNWTQAI
YQLSAGE-LIAIDGKTLRGAIAPGECQSLIHMVSAWASHNRLVLGQRTVDEKSNEITA
IPELLKVLELEG-ALVSIIDAMGCQTAIAETIIEGQG-DYVLALKGNQGDLYNDVVQLF
dhaCQTQFQIEHDSYQTVKKGHGRIEHRTYWTMGQTDYLLGAE-RWAQLKSIGCVES
CRRQPGHPG---TLQRRYLLSIESDAQR---FADAVRSHWGIENQLHWILDVGFRED
KLRACQGCQAQNLVIRHIAANLLQQESTAKCGVKAKRLKAGWDDNYLVKILSVAAKG
"
/note="ISAs1 e-value= 2.4e-150 complete sequence hit
coverage= 100%, between model( 389 aa) positions 1; 389
length is 376aa with 16 gaps, 0 stops, absolute frame=
Plus3"
CDS 5209563..5210690
/colour="255 0 0"
/evidence=predicted
/translation="PFASIIIEHFSDLDDPRAAHRIEYSLEDIIIIITLCAVLGADNWX
EVANYGRSKAQWLKQWIALPNG-----VPSHDTFEWVVFARLKPQQLQOCFLNWTQAI
YQLSAGE-LIAIDGKTLRGAIAPGECQSLIHMVSAWASHNRLVLGQRTVDEKSNEITA
IPELLKVLELEG-ALVSIIDAMGCQTAIAETIIEGQG-DYVLALKGNQGDLYNDVVQLF
dhaCQTQFQIEHDSYQTVKKGHGRIEHRTYWTMGQTDYLLGAE-RWAQLKSIGCVES
CRRQPGHPG---TLQRRYLLSIESDAQR---FADAVRSHWGIENQLHWILDVGFRED
KLRACQGCQAQNLVIRHIAANLLQQESTAKCGVKAKRLKAGWDDNYLVKILSVAAKG
"
/note="ISAs1 e-value= 1.8e-144 complete sequence hit
coverage= 100%, between model( 389 aa) positions 1; 389
length is 376aa with 16 gaps, 0 stops, absolute frame=
Plus3"
CDS 5296908..5297147
/colour="255 0 0"
/evidence=predicted
/translation="RNQQHYIRQLTAIKLLNEGHSRTQVSEQVGCSDTLTRWMDKY

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LDGGLOGLVQPI--RHQKPSRLSPREEQQQLKEMVLTQR"
 /note="IS481 e-value= 1.2e-07 fragment hit coverage=
 23.36%, between model(351 aa) positions 1; 82 length is
 80aa with 2 gaps, 0 stops, absolute frame= Plus3"
 CDS 5296935..5297342
 /colour="255 0 0"
 /evidence=predicted
 /translation="RLTAIKLLNEGHSRTQVSEQVGCSDTLTRWMDKYLDGG--LQ
 GLVQPIRHQKPSRLSPREEQQQLKEMVLTQRPTDYGIDRNMWTGAILAVVIEQRFEVQL
 KDSRIYELLSELGLSYQRAHRDYA--NADLNAQKEWVAA"
 /note="IS630 e-value= 1.9e-29 fragment hit coverage=
 37.50%, between model(376 aa) positions 30; 170 length
 is 136aa with 5 gaps, 0 stops, absolute frame= Plus3"
 CDS 5342181..5342333
 /colour="255 0 0"
 /evidence=predicted
 /translation="QLCLILDNNPTHKG-KMRSQLAIHLEqmgltqsiQVEFLYLPSY
 SPKLNLVE"
 /note="IS630 e-value= 4.3e-06 fragment hit coverage=
 11.70%, between model(376 aa) positions 279; 322 length
 is 51aa with 1 gaps, 0 stops, absolute frame= Plus3"
 CDS 5352645..5353340
 /colour="255 0 0"
 /evidence=predicted
 /translation="FKHLHLGMI sDIKRKSLPAIARAVGLENHQSLHHLFSESPWVAS
 hLSDkRLDIILKILDGRRLLILLID-----ETGDCKKKGKSTDYVKR
 QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
 PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
 AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY"
 /note="IS4 e-value= 4.7e-14 fragment hit coverage=
 51.23%, between model(486 aa) positions 1; 249 length is
 232aa with 27 gaps, 0 stops, absolute frame= Plus3"
 CDS 5352645..5353772
 /colour="255 0 0"
 /evidence=predicted
 /translation="FKHLHLGMI sDIKRKSLPAIARAVGLENHQSLHHLFSESPWVAS
 hLSDkRLDIILKILDGRRLLILLID-----ETGDCKKKGKSTDYVKR
 QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
 PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
 AEQAVFAEPWQSFERTFSNGT-----TETRYR
 QEIIYGQRHHQKRYWLLTTPQTLPENSTS-----YVMAA
 APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TLGWADFRMTHYEQIEKWWEIVMSA
 FLMVSLFADVFNDS-----CPVAHQHFAQHPwWDNONG
 WKNLLNNVR--LIIQPLIS----WNLKRWLEVFPSRALKKGf"
 /note="IS4 e-value= 9.9e-07 complete sequence hit
 coverage= 100%, between model(486 aa) positions 1; 486
 length is 376aa with 117 gaps, 0 stops, absolute frame=
 Plus3"
 CDS 5358090..5358287
 /colour="255 0 0"
 /evidence=predicted
 /translation="ASPIELSQQQHHCLTQIVRQTTNPYRLVRRASIILSAASGESNT
 QISRQWQLDRNQVRYWRQRWLD"
 /note="IS630 e-value= 4e-07 fragment hit coverage=
 17.55%, between model(376 aa) positions 1; 66 length is
 66aa with 0 gaps, 0 stops, absolute frame= Plus3"
 CDS 5653053..5653250
 /colour="255 0 0"
 /evidence=predicted
 /translation="GKHKQILLVLDGAGWHTC---KNRVVPPG--IHLKILPPYSPEL

QPAERLWRLADEPLAN-QCFETLDDLED"
 /note="IS630 e-value= 1.4e-09 fragment hit coverage=
 19.15%, between model(376 aa) positions 275; 346 length
 is 66aa with 6 gaps, 0 stops, absolute frame= Plus3"
 CDS 5666475..5666576
 /colour="255 0 0"
 /evidence=predicted
 /translation="MTYRKLSHSVWECKYHVVFPKHKRGRIYGRIRR"
 /note="IS200 e-value= 1.1e-12 fragment hit coverage=
 22.08%, between model(154 aa) positions 1; 34 length is
 34aa with 0 gaps, 0 stops, absolute frame= Plus3"
 CDS 5666475..5666933
 /colour="255 0 0"
 /evidence=predicted
 /translation="MTYRKLSHSVWECKYHVVFPKHKRGRIYGRIRRIXAIFLXAGT
 SXRECHRrrsFNARSCSX-----VVEYSAEILRVQCGLRKRKSAIYIARELGNSRNA
 -TGHKFWSRGYFVSTVG-KDEEMICXYIRpgiRSKKSXSXSNXTCFGRSPSPLXGVPI
 "
 /note="IS200 e-value= 3.1e-10 complete sequence hit
 coverage= 100%, between model(154 aa) positions 1; 154
 length is 153aa with 7 gaps, 8 stops, absolute frame=
 Plus3"
 CDS 5666475..5666576
 /colour="255 0 0"
 /evidence=predicted
 /translation="MTYRKLSHSVWECKYHVVFPKHKRGRIYGR-IRR"
 /note="IS200_IS605 e-value= 1.5e-13 fragment hit
 coverage= 22.88%, between model(153 aa) positions 1; 35
 length is 34aa with 1 gaps, 0 stops, absolute frame=
 Plus3"
 CDS 5666475..5666906
 /colour="255 0 0"
 /evidence=predicted
 /translation="MTYRKLSHSVWECKYHVVFPKHKRGRIYGR--IRRIXAIFLXA
 GTsxRECHRrrsFNARSCSX-----VVEYSAEILRVQCGLRKRKSAIYIARELGNSR
 NA-TGHKFWSRGYFVSTVG-KDEEMICXYIR-----PGIRSKKSXSXSNXTCFGRS"
 /note="IS200_IS605 e-value= 5.4e-10 complete sequence hit
 coverage= 100%, between model(153 aa) positions 1; 153
 length is 144aa with 14 gaps, 6 stops, absolute frame=
 Plus3"
 CDS 5666475..5666576
 /colour="255 0 0"
 /evidence=predicted
 /translation="-MTYRKLSHSVWECKYHVVFPKHKRGRIYGRIRR"
 /note="IS605 e-value= 1.1e-11 fragment hit coverage=
 23.03%, between model(152 aa) positions 1; 35 length is
 34aa with 1 gaps, 0 stops, absolute frame= Plus3"
 CDS 5666475..5666906
 /colour="255 0 0"
 /evidence=predicted
 /translation="-MTYRKLSHSVWECKYHVVFPKHKRGRIYGRIRRIXAIFLXAG
 TSXREChrrRSFNARSCSXVVEYSAEI---LRVQC-GGLRKRKSAIYIARELGNSRN-
 ATGHKFWSRGYFVSTVGKDEEMICXYIRPGIRSKK-----SKXSXSNXTCFGRS"
 /note="IS605 e-value= 1.7e-10 complete sequence hit
 coverage= 100%, between model(152 aa) positions 1; 152
 length is 144aa with 11 gaps, 7 stops, absolute frame=
 Plus3"
 CDS 5666769..5666846
 /colour="255 0 0"
 /evidence=predicted

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/translation="GHKFWSRGYFVSTVG-KDEEMICXYIR"
/note="IS200 e-value= 3.8e-10 fragment hit coverage=
17.53%, between model( 154 aa) positions 102; 128 length
is 26aa with 1 gaps, 1 stops, absolute frame= Plus3"
CDS 5666769..5666846
/colour="255 0 0"
/evidence=predicted
/translation="GHKFWSRGYFVSTVG-KDEEMICXYIR"
/note="IS200_IS605 e-value= 1.3e-09 fragment hit
coverage= 17.65%, between model( 153 aa) positions 102;
128 length is 26aa with 1 gaps, 1 stops, absolute frame=
Plus3"
CDS 5666769..5666846
/colour="255 0 0"
/evidence=predicted
/translation="GHKFWSRGYFVSTVGKDEEMICXYIR"
/note="IS605 e-value= 5.7e-09 fragment hit coverage=
17.11%, between model( 152 aa) positions 102; 127 length
is 26aa with 0 gaps, 1 stops, absolute frame= Plus3"
CDS 5908257..5908664
/colour="255 0 0"
/evidence=predicted
/translation="MLLVRPISTESLRLHRIYHSSRHHQVRQRAHCLILFAQGWPYY
TLASLFSVSPKTVYNWLKAWNNRG---FAGLYNHPPGRGRKPMFNPDQQQQIYEW-TQA
SPIQ-----LNQVLAQIEQQWSVRVSKATVKRVLKQMDMSWHR"
/note="IS630 e-value= 8.7e-15 fragment hit coverage=
39.63%, between model( 376 aa) positions 1; 149 length is
136aa with 13 gaps, 0 stops, absolute frame= Plus3"
CDS 5908317..5908655
/colour="255 0 0"
/evidence=predicted
/translation="SSRHHQVRQRAHCLILFAQGWPYYTLASLFSVSPKTVYNWLKAW
NNRGFAGLYNH---PGRGRKPMFNPDQQQQIYEW-TQASPIQLNQVLAQIEQQWSVR--
-VSKATVKRVLKQMDMS"
/note="IS481 e-value= 3.5e-09 fragment hit coverage=
33.62%, between model( 351 aa) positions 1; 118 length is
113aa with 6 gaps, 0 stops, absolute frame= Plus3"
CDS 5916063..5917301
/colour="255 0 0"
/evidence=predicted
/translation="IRIPLNLPDI--RVLELSKTERGDWL-----IKIESTLQGTTC
HQC GREITDL-HCHDQ-PFRIRHLPLFEVPVYLEIRPKRYRCKYCDDhpTTTQHLEWH
EPRSPNTKAYERWLLRILIN-STVSDVARKLGVSEDIVSGIIDRWIAAQVDWSEYADL
KVMGMDEISLKR--HR---DFVVLITIP-TTdgVDILAVLADRKQQTVANFLQSIP-I
DLRQTIERVCTDMYQGFVSAVREQLPQAKIVIDRFHVTKAYRNCADTVRKREVKRLRR
ELS-----KQEYD-----SIKGAMWPFKRKPENLKES-EQOLLER
LFA--YSPQLKQAYNLREKLTQIFEGRYTKHGAKcAIRAWCKQVLKSDiKEFDCFLTT
INNWMDEMTNYFLEG-WTSGFVEGFNNRVKVLKRRCYGIFDIERLQFQRIISLDLNGYQT
FAVTXTL"
/note="ISL3 e-value= 1.8e-43 complete sequence hit
coverage= 100%, between model( 451 aa) positions 1; 451
length is 413aa with 44 gaps, 1 stops, absolute frame=
Plus3"
CDS 5916222..5917301
/colour="255 0 0"
/evidence=predicted
/translation="RIRHLPLFEVPVYLEIRPKRYRCKYCDDhpTTTQHLEWHEPRSP
NTKAYERWLLRILIN-STVSDVARKLGVSEDIVSGIIDRWIAAQVDWSEYADLKVMGM
DEISLKR--HR---DFVVLITIP-TTdgVDILAVLADRKQQTVANFLQSIP-IDLRQTI
ERVCTDMYQGFVSAVREQLPQAKIVIDRFHVTKAYRNCADTVRKREVKRLRRELS--

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-----KQEYD-----SIKGAMWPFRRKRPENLKES-EQOLLERLFA--
YSPQLKQAYNLREKLTQIFEGRYTKHGAKcAIRAWCKQVLKSDiKEFDCFLTINNM
DEMTNYFLEG-WTSGFVEGFNNRVKVLKRRCYGIFDIERLFQRIISLDLNGYQTFVAVTX
TL"
/note="ISL3 e-value= 1e-49 fragment hit coverage= 86.03%,
between model( 451 aa) positions 64; 451 length is 360aa
with 34 gaps, 1 stops, absolute frame= Plus3"
CDS 5942076..5942741
/colour="255 0 0"
/evidence=predicted
/translation="-----TGVYKQTF-KRMLHAWHTYHLSHSNAGRPPKLCRPDQLL
VALQYWREYRTYFHIAGDWEVSESTVCRIVHQVETALMNSGLFRLPGKKHLIQGFERPDVVMDVTETPIERPQKQKAYYSGKKRDIPSARLLLTAT--LXRLSV-----X
ALAQAQVGMIFR-----YSRVQVSIS--IQIPRVCKIADIKGLQPTTPTAM
FLS-----RSHNMVNXLPCSESITVHXVRNEWALNTLIAA"
/note="IS5_ISL2 e-value= 1.8e-23 complete sequence hit
coverage= 100%, between model( 260 aa) positions 1; 260
length is 222aa with 39 gaps, 4 stops, absolute frame=
Plus3"
CDS 5942136..5942447
/colour="255 0 0"
/evidence=predicted
/translation="SHSNAGRPPKLCRPDQLLVALQYWREYRTYFHIAGDWEVSESTV
CRIVHQVETALMNSGLFRLPGKKHLIQGFERPDVVMDVTETPIERPQKQKAYYSGK
KR"
/note="IS5_ISL2 e-value= 5e-44 fragment hit coverage=
40%, between model( 260 aa) positions 26; 129 length is
104aa with 0 gaps, 0 stops, absolute frame= Plus3"
CDS 5992275..5993312
/colour="255 0 0"
/evidence=predicted
/translation="PMIKIDFTAEEIQQLNYERYHHPHPRVQRRMEVLYLKSQGLSHT
QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQGPSLLNAHS-DSVRAYFEQH
PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRYRKGVYVPGKSSLP
-EKIEEQEQFRHTRLEPLleeAQRQERLVFFVDAAHFVHRAYLGF-VWCITRI-----
-----FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL
DPV-IPISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVVRKE
CLYSKYADFPFAFKGAIQQCIDQCNGEHKAKLTLLSLKFQSFKK"
/note="IS630 e-value= 6.7e-25 complete sequence hit
coverage= 100%, between model( 376 aa) positions 1; 376
length is 346aa with 33 gaps, 0 stops, absolute frame=
Plus3"
CDS 5992275..5993312
/colour="255 0 0"
/evidence=predicted
/translation="PMIKIDFTAEEIQQLNYERYHHPHPRVQRRMEVLYLKSQGLSHT
QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQGPSLLNAHS-DSVRAYFEQH
PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRYRKGVYVPGKSSLP
-EKIEEQEQFRHTRLEPLleeAQRQERLVFFVDAAHFVHRAYLGF-VWCITRI-----
-----FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL
DPV-IPISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVVRKE
CLYSKYADFPFAFKGAIQQCIDQCNGEHKAKLTLLSLKFQSFKK"
/note="IS630 e-value= 4.9e-24 complete sequence hit
coverage= 100%, between model( 376 aa) positions 1; 376
length is 346aa with 33 gaps, 0 stops, absolute frame=
Plus3"
CDS 5992335..5992493
/colour="255 0 0"
/evidence=predicted
/translation="HHPHPRVQRRMEVLYLKSQGLSHTQICQLCQISRPTLAKTLRQY

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QGGIEGLK"
 /note="IS481 e-value= 3.7e-09 fragment hit coverage= 15.10%, between model(351 aa) positions 1; 53 length is 53aa with 0 gaps, 0 stops, absolute frame= Plus3"
 CDS 6109407..6109544
 /colour="255 0 0"
 /evidence=predicted
 /translation="WQTDGWEGYARQLPDE---VVHEVSKALTQRLERTNGIVRQQTGRWHRR"

/note="IS1_ORF2 e-value= 1.8e-11 fragment hit coverage= 20.68%, between model(237 aa) positions 164; 212 length is 46aa with 3 gaps, 0 stops, absolute frame= Plus3"
 CDS 6263616..6264854
 /colour="255 0 0"
 /evidence=predicted
 /translation="IRIPLNLPDI--RVLELSKTERGDWL-----IKIESTLQGTTC HQCGREITDL-HCHDQ-PFRIRHLPLFEVPVYLEIRPKRYRCKYCDDhpTTTQHLEWH EPRSPNTKAYERWLLRILIN-STVSDVARKLGVSEDIVSGIIDRWIAAQVDWSEYADL KVMGMDEISLKRK--HR---DFVVLITIPtTdgVDILAVLADRKQQTVANFLQSIP-IDLRQTIERVCTDMYQGFVSAVREQLPQAKIVIDRFHVTKAYRNCADTVRKREVKRLRR ELS-----KQEYD-----SIKGAMWPFKRKPENLKES-EQQLLER LFA--YSPQLKQAYNLREKLTQIFEGRYTKHGAKcAIRAWCKQVLKSDiKEFDCFLTT INNWMDEMTNYFLEG-WTSGFVEGFNNRVKVLKRRRCYGIFDIERLRFQORISLDLNGYQT FAVTXML"

/note="ISL3 e-value= 1.8e-43 complete sequence hit coverage= 100%, between model(451 aa) positions 1; 451 length is 413aa with 44 gaps, 1 stops, absolute frame= Plus3"
 CDS 6263775..6264854
 /colour="255 0 0"
 /evidence=predicted
 /translation="RIRHLPLFEVPVYLEIRPKRYRCKYCDDhpTTTQHLEWHEPRSP NTKAYERWLLRILIN-STVSDVARKLGVSEDIVSGIIDRWIAAQVDWSEYADLKVMGM DEISLKRK--HR---DFVVLITIPtTdgVDILAVLADRKQQTVANFLQSIP-IDLRQTI ERVCTDMYQGFVSAVREQLPQAKIVIDRFHVTKAYRNCADTVRKREVKRLRRELS-- -----KQEYD-----SIKGAMWPFKRKPENLKES-EQQLLERLFA-- YSPQLKQAYNLREKLTQIFEGRYTKHGAKcAIRAWCKQVLKSDiKEFDCFLTTINNWM DEMTNYFLEG-WTSGFVEGFNNRVKVLKRRRCYGIFDIERLRFQORISLDLNGYQTFAVXT L"

/note="ISL3 e-value= 1e-49 fragment hit coverage= 86.03%, between model(451 aa) positions 64; 451 length is 360aa with 34 gaps, 1 stops, absolute frame= Plus3"
 CDS 6300402..6300794
 /colour="255 0 0"
 /evidence=predicted
 /translation="VDTHGQSEVGFACFYLLNFQLMPRFKGINQKLYLPMsGQKKKY VYLKAIKRPMPRWDLVREQYEPMIQFTTAMKQGTAEPEAILS RFRNNIKHPTYLALA ELGRAIKTIFLCQYLHDEALRQEINEGLN"

/note="Tn3 e-value= 7.4e-17 fragment hit coverage= 12.95%, between model(1004 aa) positions 764; 893 length is 131aa with 0 gaps, 0 stops, absolute frame= Plus3"
 CDS 6306396..6307874
 /colour="255 0 0"
 /evidence=predicted
 /translation="DSYHTRVYMNGRDLGLKQAEAAAYIAEISTRGQRIEAGTHQPNR -GRLQD-----QRTVPDPLADVWE---DELEPMLRRDPRLKPMTLYEYLQD-KYPG QYPQVlrtlQRRVRTWKALHGPS-----PEVMFELRHEPGVQGFSDFTLKGITITIA GQPFEHLIYHYRLGYSGWRYAQIIQgESFVALSEGLQNAFAACGGVPQOHRDLSLA AYRNMGGRRS-KNLTRLYDELCDHYRLEPTRNNKG--IAHENGSIESPHGHLKNRIKQ AIYLRSAD-----FTSVAEYQALIDAQVAKLNQOCQTK-----YEQEKDHLQPLPK

YRTPDYEVLTAAAAKVSKRSTIDVRCILYTVPSRLIGRQLELHLYHDRVGYLERHP
VVELPRKRVSGKGRDRRCINRHRVIGSMRLKPRAFIYCTWQSDLLPNPEYRQIWEQL
KAQFDLEQAAKIIVEALYIAAVQDKEQAVAVYLOOQLOASSLTLNRLKKQFEPQMKO
VPDLSIeQHS----LELYDKLLPS"
/note="IS21_ORF1 e-value= 1.3e-21 complete sequence hit
coverage= 100%, between model(525 aa) positions 1; 525
length is 493aa with 39 gaps, 0 stops, absolute frame=
Plus3"

CDS 6306666..6307496
/colour="255 0 0"
/evidence=predicted
/translation="QYPQVLRRTLQRRVRTWKALHGPS-----PEVMFELRHEPGVQGF
SDFTELKGITITTIAGQPFHELIYHYRLGYSGWRYAQIIQGGESFVALSEGLQNAFAAC
GGVPOQHRTDSLAAAYRNMGGRRS-KNLTRLYDELCDHYRLEPTRNNKG--IAHENG
IESPHGHLKNRIKQAIYLRGSAD-----FTSVAEYQALIDAQVAKLNQOCQTK-----
-YEQEKDHLQPLPKYRTPDYEVLTAAAAKVSKRSTIDVRCILYTVPSRLIGRQLELH
LYHDRVGY-----LERHPVVELPRKRV"

/note="IS21_ORF1 e-value= 1e-29 fragment hit coverage=
57.90%, between model(525 aa) positions 99; 402 length
is 277aa with 28 gaps, 0 stops, absolute frame= Plus3"
complement(6395489..6394549)
/colour="255 0 0"
/evidence=predicted
/translation="TKNRXPMSYQIRNWSEYNAGLKQRGSVTFWLEQS--AIVHWLET
TPRQKRGASLTYSDTAISTFETVKCIYGLAGRQTEGFLNSLFELMGIELPVC DHSTVS
RRKGQLSISLPVIPKQGAIHVVIDSTGVKVG-----EGEWKTRQHGVS-K
RRTWRKLHLSVDESTGEILTGVVTTNDVQDGEVFEDLLEGIDD-----EIEQVSAD-G
AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHGN--NApphpRDQ
NLRAIRKQGRKRWKKQAHYHRRSLAETTMFRFKTIFGGQVRSRNFNDQATELLLOCA
LN-RMIQIAKPETVWVE"

CDS complement(6395489..6394549)
/colour="255 0 0"
/evidence=predicted
/translation="TKNRXPMSYQIRNWSEYNAGLKQRGSVTFWLEQS--AIVHWLET
TPRQKRGASLTYSDTAISTFETVKCIYGLAGRQTEGFLNSLFELMGIELPVC DHSTVS
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RRTWRKLHLSVDESTGEILTGVVTTNDVQDGEVFEDLLEGIDD-----EIEQVSAD-G
AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHGN--NApphpRDQ
NLRAIRKQGRKRWKKQAHYHRRSLAETTMFRFKTIFGGQVRSRNFNDQATELLLOCA
LN-RMIQIAKPETVWVE"

/note="IS5_IS903 e-value= 1.1e-96 complete sequence hit
coverage= 100%, between model(347 aa) positions 1; 347
length is 314aa with 37 gaps, 1 stops, absolute frame=
Minus1"
complement(6395489..6394549)
/colour="255 0 0"
/evidence=predicted
/translation="TKNRXPMSYQIRNWSEYNAGLKQRGSVTFWLEQS--AIVHWLET
TPRQKRGASLTYSDTAISTFETVKCIYGLAGRQTEGFLNSLFELMGIELPVC DHSTVS
RRKGQLSISLPVIPKQGAIHVVIDSTGVKVG-----EGEWKTRQHGVS-K
RRTWRKLHLSVDESTGEILTGVVTTNDVQDGEVFEDLLEGIDD-----EIEQVSAD-G
AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHGN--NApphpRDQ
NLRAIRKQGRKRWKKQAHYHRRSLAETTMFRFKTIFGGQVRSRNFNDQATELLLOCA
LN-RMIQIAKPETVWVE"

CDS complement(6348974..6348694)
/colour="255 0 0"
/evidence=predicted
/translation="SISFRaMQCIHCQSEN-VVKNGTKT-LKtaqvYFLCKDCGRR
FN-ERSGTPMARLrtpvETISMARNARTEGLGIRAAGRVLGKSPSILLWEKR"

/note="IS1_ORF1 e-value= 9.8e-10 fragment hit coverage=
36.82%, between model(239 aa) positions 1; 88 length is
94aa with 3 gaps, 0 stops, absolute frame= Minus1"
complement(6343880..6343381)
/colour="255 0 0"
/evidence=predicted
/translation="QVTLIEAAVETQQRFGWRVYVTNAPLEELSFEEAVLTVRDAWI

QESGFSRLKGNPLGASPLFVQRDDHAKGLMHLLSLGLRILTLIEFVVQRRLKQ-----
-----HKEkLFGLFPGNPKRATTRPTTERILRAFKDISLTILGVKDeey
ghVSPLTSLQQRILELLGLAPDIYSS"
/note="IS4 e-value= 3e-08 fragment hit coverage= 37.04%,
between model(486 aa) positions 307; 486 length is 167aa
with 19 gaps, 0 stops, absolute frame= Minus1"
CDS complement(6314132..6313894)
/colour="255 0 0"
/evidence=predicted
/translation="TLAKLDHFELFILDEIGYDIKTDETSIQSELIVHRYERRSFKI
TANHPFSTRXCIFC-DSSMTVAAIDRFVYHAFIIEIK"
/note="IS21_ORF2 e-value= 1.3e-09 fragment hit coverage=
31.40%, between model(258 aa) positions 157; 237 length
is 80aa with 1 gaps, 1 stops, absolute frame= Minus1"
CDS complement(6234089..6232612)
/colour="255 0 0"
/evidence=predicted
/translation="DSYHTRVYMNGRDLGLKQAEAAAYIAEISTRGQRIEAGTHQPNR
-GRLQD-----QRTVPDPLADVWE---DELEPMLRRDPRLKPMPLYEYLQD-KYPG
QYPQVlrtlQRRVRTWKALHGPS-----PEVMFELRHEPGVQGFSDFTTELKGITITIA
GKPFELIYHYRLGYSGWRYAQIIQGgESFVALSEGLQNAFAACGGVPTQHRDLSA
AYRNMGGRRS-KNLTRLYDELCDHYRLEPTRNNKG--VAHENGSIESP HGHLKNRIKQ
AIYLRGSAD-----FTSVGEYQALIDAQVA---KLNQOC---QAKYEQEKELQPLPK
YRTPDYEVLTATA----KVKRSTIDVRCILYTVPSRLIGRQLELHLYHDRVIGYLERHP
VVELPRKRVSGkGKRRDRRCINRHHVIGSMRLKPRAFIYCTWQSDLLPNPEYRQIWEQL
KAQFDLEQA AKIIVEALYIAAVQDKEQAVAVYLOQQLRSSLTLNRLKKQFEPQMKQ
VPDLSIeQHS----LELYDKLLPS"
/note="IS21_ORF1 e-value= 3.3e-24 complete sequence hit
coverage= 100%, between model(525 aa) positions 1; 525
length is 493aa with 39 gaps, 0 stops, absolute frame=
Minus1"
CDS complement(6233819..6232990)
/colour="255 0 0"
/evidence=predicted
/translation="QYPQVLR TLQRRVRTWKALHGPS-----PEVMFELRHEPGVQGF
SDFTTELKGITITIA GKPFEHLIYHYRLGYSGWRYAQIIQGgESFVALSEGLQNAFAAC
GGVPTQHRDLSAAYRNMGGRRS-KNLTRLYDELCDHYRLEPTRNNKG--VAHENG
SIESP HGHLKNRIKQAIYLRGSAD-----FTSVGEYQALIDAQVA---KLNQOC---QA
KYEQEKELQPLPKYRTPDYEVLTATA----KVKRSTIDVRCILYTVPSRLIGRQLELH
LYHDRVIGY-----LERHPVVELPRKRVS"
/note="IS21_ORF1 e-value= 4.2e-32 fragment hit coverage=
57.90%, between model(525 aa) positions 99; 402 length
is 277aa with 28 gaps, 0 stops, absolute frame= Minus1"
CDS complement(6059630..6059137)
/colour="255 0 0"
/evidence=predicted
/translation="LEKTGIESKKKTYGYR--ERD--ETQR---QAFIERLQTKHP--
HQIVYVDEAGIDNRADYPY-GYCPVG-----QRFYD-LKSG-KRTERVSFIA
ALKEGQL--FSPMTFEGSCNRLLEFAWLQOSLI-SQLQLgdVIVIDNASFHHGQRIEE
IVAEAG--CEIWYLPSPDLNKIERWWFVLKN"
/note="IS630 e-value= 3e-16 fragment hit coverage=
50.80%, between model(376 aa) positions 140; 330 length
is 165aa with 28 gaps, 0 stops, absolute frame= Minus1"
CDS complement(6014810..6014614)
/colour="255 0 0"
/evidence=predicted
/translation="ASPIELSQQQHHCLTQIVRQTTPYRLVRRASIILSAASGESNT
QISRQWQLDRNQVRYWRQRWLD"
/note="IS630 e-value= 4e-07 fragment hit coverage=
17.55%, between model(376 aa) positions 1; 66 length is

66aa with 0 gaps, 0 stops, absolute frame= Minus1"

CDS complement(5728283..5728174)
/colour="255 0 0"
/evidence=predicted
/translation="VMKVM I-CPHCQSDR-LSKNGKRR-NQQCYVCKDCRKQFV"
/note="IS1_ORF1 e-value= 4.1e-06 fragment hit coverage= 16.74%, between model(239 aa) positions 1; 40 length is 37aa with 3 gaps, 0 stops, absolute frame= Minus1"

CDS complement(5719823..5719186)
/colour="255 0 0"
/evidence=predicted
/translation="MASKTTNVkPVVVS LWKLLSKSELIHPLKAXSISYCLKRYLWQV L-----PGS-----VMFLKAGYKSTXTVsMKQCLVLXTYHQKKGR-----
---LTLQCDEMWSFVNDKSNKQWIWLALDVITREIVGVYVGARSKQGARQLWNSLPGI YRQCAVaYTDfWDAYGCVFPKQ-RHQAVGKETGQTCYIERFNCTMRQRVSR LVRKTL SFSKKLENHIGAIWMFVHHYNAS"
/note="IS1_ORF2 e-value= 4.6e-13 complete sequence hit coverage= 100%, between model(237 aa) positions 1; 237 length is 213aa with 27 gaps, 3 stops, absolute frame= Minus1"

CDS complement(5719571..5719195)
/colour="255 0 0"
/evidence=predicted
/translation="DEMWSFVNDKSNKQWIWLALDVITREIVGVYVGA----RSKQGA RQLwNSLPGIYRQCAVaYTDfWDAYgCVFPKQRHQAVGKETgQTCYIERFNCTMRQRV SR LVRKTL SFSKKLENHIGAIWMF---VHHY"
/note="IS1_ORF1 e-value= 4.6e-14 fragment hit coverage= 53.97%, between model(239 aa) positions 111; 239 length is 126aa with 7 gaps, 0 stops, absolute frame= Minus1"

CDS complement(5719571..5719186)
/colour="255 0 0"
/evidence=predicted
/translation="DEMWSFVNDKSNKQWIWLALDVITREIVGVYVGARSKQGARQLW NSLPGIYRQCAVaYTDfWDAYGCVFPKQ-RHQAVGKETGQTCYIERFNCTMRQRVSR LVRKTL SFSKKLENHIGAIWMFVHHYNAS"
/note="IS1_ORF2 e-value= 6.2e-32 fragment hit coverage= 54.43%, between model(237 aa) positions 109; 237 length is 129aa with 1 gaps, 0 stops, absolute frame= Minus1"

CDS complement(5718014..5717818)
/colour="255 0 0"
/evidence=predicted
/translation="ASPIELSOQQHHCLTQIVRQTTPYRLVRRASIILSAAGESNT QISRQWQLDRNQVRYWRQRWLD"
/note="IS630 e-value= 4e-07 fragment hit coverage= 17.55%, between model(376 aa) positions 1; 66 length is 66aa with 0 gaps, 0 stops, absolute frame= Minus1"

CDS complement(5509199..5509063)
/colour="255 0 0"
/evidence=predicted
/translation="WQTDGWEGYARQLPDE---VVHEVSKALTQRLERTNGIVRQQTG RWHRR"
/note="IS1_ORF2 e-value= 1.8e-11 fragment hit coverage= 20.68%, between model(237 aa) positions 164; 212 length is 46aa with 3 gaps, 0 stops, absolute frame= Minus1"

CDS complement(5354885..5354170)
/colour="255 0 0"
/evidence=predicted
/translation="YLSPE S-LXCRASSKVSMXSTVGS P S-----ILARISDL FPHCWRLGSLXINCLPYCpGRDRSDELRTLSLTRSEISATR-----VRATGCR CDGCDXNAHXTSPDKTKSVLF----RKKKRHTFKCQIIANRNTLEIICLNVGPGRRHD

FQISKVSGIHIHPDTESLQDSGYQGIAAYHANSYVPLKKPOHGELTSLOREYNRALSQ
 ERMGIEHINRSLKIFRILSERYRNRRRRYALRCNLIAAIYNYEL"
 /note="IS5_ISL2 e-value= 8.9e-38 complete sequence hit
 coverage= 100%, between model(260 aa) positions 1; 260
 length is 239aa with 23 gaps, 5 stops, absolute frame=
 Minus1"
 CDS complement(5354570..5354170)
 /colour="255 0 0"
 /evidence=predicted
 /translation="KKKRHTFKCQIIANRNTLEIICLNVGPGRRRHDFQISKVSGIHIH
 PDTESLQDSGYQGIAAYHANSYVPLKKPOHGELTSLOREYNRALSQERMGIEHINRSL
 KIFRILSERYRNRRRRYALRCNLIAAIYNYEL"
 /note="IS5_ISL2 e-value= 4.7e-61 fragment hit coverage=
 51.54%, between model(260 aa) positions 127; 260 length
 is 134aa with 0 gaps, 0 stops, absolute frame= Minus1"
 CDS complement(5242232..5241538)
 /colour="255 0 0"
 /evidence=predicted
 /translation="FKHLHLGMI sDIKRKSLPAIARAVGLENHQSLHHLFSESPPWVAS
 hLSDkRLDIILKILDGRRLILLID-----ETGDCKKGKSTDYVVKR
 QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
 PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
 AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY"
 /note="IS4 e-value= 4.7e-14 fragment hit coverage=
 51.23%, between model(486 aa) positions 1; 249 length is
 232aa with 27 gaps, 0 stops, absolute frame= Minus1"
 CDS complement(5242232..5241106)
 /colour="255 0 0"
 /evidence=predicted
 /translation="FKHLHLGMI sDIKRKSLPAIARAVGLENHQSLHHLFSESPPWVAS
 hLSDkRLDIILKILDGRRLILLID-----ETGDCKKGKSTDYVVKR
 QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
 PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
 AEQAVFAEPWQSFERTFSNGT-----TETRYR
 QEIIYGQRHHQKRYWLLTTDPQTLPENSTS-----YVMAA
 APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TLGWADFRMTHYEQIEKWWEIVMSA
 FLMVSLFADVFNDS-----CPVAHQHFAQHPWWDNONG
 WKNLLNNVR--LIIQPLIS----WNLLKRWLEVFPSRALKKGF"
 /note="IS4 e-value= 9.9e-07 complete sequence hit
 coverage= 100%, between model(486 aa) positions 1; 486
 length is 376aa with 117 gaps, 0 stops, absolute frame=
 Minus1"
 CDS complement(5175581..5174845)
 /colour="255 0 0"
 /evidence=predicted
 /translation="-----TGVYKRTFkrMLHAWHTYHLRSRN--AGRPPKLCQCDQL
 LVTLOYWREYR TYFHIAGDWEVSESTVCRIVHQVETALMNSGLFRLPGQKSLLOQFER
 PDVVVMDVTETPIERPQTRQKAYYSGKKRDIPSNARLSLTATLXr lsaltLVQVVG--
 -----MIFRSSRVQVSISIQIPRVCKIADIKGLQ-----PIMP-TAMFLSRSHNTV
 NXLPCESESITVLXVRNEWALNTLIAAXRFSEFCRSAIAIVVVATRCGVTX"
 /note="IS5_ISL2 e-value= 3.2e-21 complete sequence hit
 coverage= 100%, between model(260 aa) positions 1; 260
 length is 246aa with 22 gaps, 5 stops, absolute frame=
 Minus1"
 CDS complement(5175521..5175211)
 /colour="255 0 0"
 /evidence=predicted
 /translation="SRSNAGRPPKLCQCDQLLVTLOYWREYR TYFHIAGDWEVSESTV
 CRIVHQVETALMNSGLFRLPGQKSLLOQFERPDVVVMDVTETPIERPQTRQKAYYSGK
 KR"

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/note="IS5_ISL2 e-value= 7.6e-44 fragment hit coverage=
40%, between model( 260 aa) positions 26; 129 length is
104aa with 0 gaps, 0 stops, absolute frame= Minus1"
CDS complement(5069105..5069026)
/colour="255 0 0"
/evidence=predicted
/translation="TFSCLNRYRRLGKDYELYPETSEAMIY"
/note="IS5_IS1031 e-value= 5.8e-07 fragment hit coverage=
9.15%, between model( 295 aa) positions 246; 272 length
is 27aa with 0 gaps, 0 stops, absolute frame= Minus1"
CDS complement(4933280..4932616)
/colour="255 0 0"
/evidence=predicted
/translation="FKYLHLGMMsDIKHKSLPAIARICGLANEQGLLHFLTESPWRPS
aLEQaRLNLILQVLSGRPLTLIID-----ETEDRKKGKQTDYVQR
QYLGNLGKVDNGIvAVTAYGVVEHMTLPLMFRVYKPKsRLQSGD-----VYHSK
PEIAVSMIDELLAHGCFDLVLDADSLYGESGSTFVSHLQALQLPYVVAIRSNHGLWLP
KEQVRVRCNRWRAFEHVFSFGS-----CETRYIREVI"
/note="IS4 e-value= 4.5e-12 fragment hit coverage=
53.29%, between model( 486 aa) positions 1; 259 length is
222aa with 42 gaps, 0 stops, absolute frame= Minus1"
CDS complement(4933280..4932184)
/colour="255 0 0"
/evidence=predicted
/translation="FKYLHLGMMsDIKHKSLPAIARICGLANEQGLLHFLTESPWRPS
aLEQaRLNLILQVLSGRPLTLIID-----ETEDRKKGKQTDYVQR
QYLGNLGKVDNGIvAVTAYGVVEHMTLPLMFRVYKPKsRLQSGD-----VYHSK
PEIAVSMIDELLAHGCFDLVLDADSLYGESGSTFVSHLQALQLPYVVAIRSNHGLWLP
KEQVRVRCNRWRAFEHVFSFGS-----CETRYIREV
IYQQR---LAQQFWDITTDQPONLPKASTW-----YVMS
EIE---GVKYHQIGNFYGLRNWVEYGLKQSKN-ELGWADFRVTDYDQIERWWQVVMAS
YLMVSLHSDRFEL-----PTGLSMKQQVP
PVIETFQ---HRYWQTGKGWKHLLNLRVLIQSLILFD"
/note="IS4 e-value= 1.2e-06 complete sequence hit
coverage= 100%, between model( 486 aa) positions 1; 486
length is 366aa with 126 gaps, 0 stops, absolute frame=
Minus1"
CDS complement(4908698..4908313)
/colour="255 0 0"
/evidence=predicted
/translation="YADESGMDHRDEYDY-AYGPKGE-----RVYA-LKTG-
RRSGRVNMIAALRAKQL--MAPFTIEGACNRTVFELwLERCLIPvlKPGQKLVl--DN
ATFHKGQIQELVEKAG--CEVWYLPPYSPDLNKIERSWSWIKSRIR"
/note="IS630 e-value= 1.1e-13 fragment hit coverage=
38.83%, between model( 376 aa) positions 188; 333 length
is 129aa with 20 gaps, 0 stops, absolute frame= Minus1"
CDS complement(4716020..4715806)
/colour="255 0 0"
/evidence=predicted
/translation="REIHEAIGVSIRTIERVMRFVEEG---LEAAINQRsGAGRKRK
IQGEQEAHLIALRCSEPPVG----HARWTLRLLAD"
/note="IS630 e-value= 9.9e-08 fragment hit coverage=
20.74%, between model( 376 aa) positions 44; 121 length
is 72aa with 7 gaps, 0 stops, absolute frame= Minus1"
CDS complement(4612568..4612411)
/colour="255 0 0"
/evidence=predicted
/translation="HHPHPRVQRRMEVLYLKSQGLPHAQICQLCQISRPTLAKTLRLY
QGGIEGLK"
/note="IS481 e-value= 1.1e-08 fragment hit coverage=

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15.10%, between model(351 aa) positions 1; 53 length is 53aa with 0 gaps, 0 stops, absolute frame= Minus1"

CDS complement(4319990..4319854)
/colour="255 0 0"
/evidence=predicted
/translation="WQTDGWEGYARQLPDE---VVHEVSKALTQRLERTNGIVRQQTGRWHRR"

/note="IS1_ORF2 e-value= 1.8e-11 fragment hit coverage= 20.68%, between model(237 aa) positions 164; 212 length is 46aa with 3 gaps, 0 stops, absolute frame= Minus1"

CDS complement(4252406..4251982)
/colour="255 0 0"
/evidence=predicted
/translation="GRQRFNVLGALNAVTKEvTSITNHTYINSHSMCLLLAKLALLDPVI--PISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVVRKECLYSKYYSDFHSEFKGAIQQCIDQCNTTEHKAKLTSLLSLKFQSFQK"

/note="IS630 e-value= 6.2e-18 fragment hit coverage= 38.56%, between model(376 aa) positions 232; 376 length is 142aa with 4 gaps, 0 stops, absolute frame= Minus1"

CDS complement(4222007..4221850)
/colour="255 0 0"
/evidence=predicted
/translation="HHPHPRVQRMEVLYLKSQGLPHAQICQLCQISRPTLAKTLRLYQQGGIEGLK"

/note="IS481 e-value= 1.1e-08 fragment hit coverage= 15.10%, between model(351 aa) positions 1; 53 length is 53aa with 0 gaps, 0 stops, absolute frame= Minus1"

CDS complement(4221497..4221091)
/colour="255 0 0"
/evidence=predicted
/translation="MLLVRPISTESLRLHRIYHSSRHHQVRQRAHCLILFAQGWPPYTLASLFSVSPKTVYNWLKAWNNRG---FAGLYNHPRGRKPMFNPDQQQIYEWTPAQASPIQ-----LNQVLAQIEQQWSVRVSKATVKRVLKQMDMSWHR"

/note="IS630 e-value= 8.7e-15 fragment hit coverage= 39.63%, between model(376 aa) positions 1; 149 length is 136aa with 13 gaps, 0 stops, absolute frame= Minus1"

CDS complement(4221437..4221100)
/colour="255 0 0"
/evidence=predicted
/translation="SSRHHQVRQRAHCLILFAQGWPPYTLASLFSVSPKTVYNWLKAWNNRGFAGLYNH---PGRGRKPMFNPDQQQIYEWTPAQASPIQLNQVLAQIEQQWSVR--VSKATVKRVLKQMDMS"

/note="IS481 e-value= 3.5e-09 fragment hit coverage= 33.62%, between model(351 aa) positions 1; 118 length is 113aa with 6 gaps, 0 stops, absolute frame= Minus1"

CDS complement(4218878..4218454)
/colour="255 0 0"
/evidence=predicted
/translation="GRQRFNVLGALNAVTKEvTSITNHTYINSHSMCLLLAKLALLDPVI--PISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVVRKECLYSKYYSDFHSEFKGAIQQCIDQCNTTEHKAKLTSLLSLKFQSFQK"

/note="IS630 e-value= 6.2e-18 fragment hit coverage= 38.56%, between model(376 aa) positions 232; 376 length is 142aa with 4 gaps, 0 stops, absolute frame= Minus1"

CDS complement(4135019..4134772)
/colour="255 0 0"
/evidence=predicted
/translation="MQCPLCGHPT-THXHGKTSKGSQRYRCLHCXRTFSEtfdTLYYHQISPTLQTLQSHAEGSSLRGLARITGVAYNTCVSVVR"

/note="IS1_ORF1 e-value= 2.5e-12 fragment hit coverage=

34.31%, between model(239 aa) positions 6; 87 length is 83aa with 1 gaps, 2 stops, absolute frame= Minus1"

CDS complement(4135019..4134334)
/colour="255 0 0"
/evidence=predicted
/translation="-----MQCPLCGHPT-THXHGKTSKGSQRYRCLHCXRTFSEtFD
TLYYHRQISPQTLQITILQSHAEGSSLRGLARITGVAYNTCVSVVRSAA--SHKAQMIHN
Q-----EGQAVSTDVinADALWSFVKKSksTVNRKNXASAIAGXRX-----VLP
KTVAXCS--VVVLANIPTSSLKHXLRILKAKPPVtIGKRMVETVTHANYPMRXSItxV
RPNRNAXSgpmeyyGNRPGAGIDDKTNLV-KSGNRV"
/note="IS1_ORF1 e-value= 1.6e-06 complete sequence hit
coverage= 100%, between model(239 aa) positions 1; 239
length is 229aa with 25 gaps, 10 stops, absolute frame=
Minus1"

CDS complement(4134977..4134790)
/colour="255 0 0"
/evidence=predicted
/translation="GKTSKGSQRYRCLHCXRTFSETFdtLYYHRQisPQTLQITILQSH
AEGSSLRGLARITGVAYNT"
/note="IS1_ORF2 e-value= 4.3e-06 fragment hit coverage=
24.89%, between model(237 aa) positions 21; 79 length is
63aa with 0 gaps, 1 stops, absolute frame= Minus1"

CDS complement(3406541..3406153)
/colour="255 0 0"
/evidence=predicted
/translation="FFMDESGFSLVPCIPY-GWQPIG-----TYL-EIPT
RSSKRLNVLGFLSRROGL--HAYTSEQTITSEVVShCIDTFFADV--ELPTVIVVDQA
PIHTSQsiyEMKAWEAERG--ITLFELPSYSPHLNLIERLWQFMKYQWI"
/note="IS630 e-value= 6.5e-11 fragment hit coverage=
39.10%, between model(376 aa) positions 187; 333 length
is 130aa with 21 gaps, 0 stops, absolute frame= Minus1"

CDS complement(2707001..2705968)
/colour="255 0 0"
/evidence=predicted
/translation="QRFIQGLSPETIHLLSRIHRHSYHHQVRQRAHCILLSFEGFNVT
ELMSIFAVTRKTVYTWLDDWDNHC---LVGLYDQPGRGRKPKLNDVQ-KEQIRAWAKM
TP-----HNLNAVLAKEAWNIAVSKTTLKRILKSCSMSWRRLRRRVVAGQDPD
VEYETK-----RHQLEVLKRQEEKGELdlrYLDESGFCLVPYVPY-AWQEKG-----
-----ETLGLPSQRSSRFNVLGLMNRHNDL-TSYVFDKSITSAVVVACIDDFSRT
C--DQHTVVVMDQASVHKNAEIEEKIEDWKakNVEIFWLPTYSPHLNLIEIFWRFMKY
EWIEFAAYKCLGSLSLYIDKILKGFgKDYVIDFGXVLTKAVFISDIY"
/note="IS630 e-value= 1.1e-19 complete sequence hit
coverage= 100%, between model(376 aa) positions 1; 376
length is 345aa with 36 gaps, 1 stops, absolute frame=
Minus1"

CDS complement(2707001..2706100)
/colour="255 0 0"
/evidence=predicted
/translation="QRFIQGLSPETIHLLSRIHRHSYHHQVRQRAHCILLSFEGFNVT
ELMSIFAVTRKTVYTWLDDWDNHC---LVGLYDQPGRGRKPKLNDVQ-KEQIRAWAKM
TP-----HNLNAVLAKEAWNIAVSKTTLKRILKSCSMSWRRLRRRVVAGQDPD
VEYETK-----RHQLEVLKRQEEKGELdlrYLDESGFCLVPYVPY-AWQEKG-----
-----ETLGLPSQRSSRFNVLGLMNRHNDL-TSYVFDKSITSAVVVACIDDFSRT
C--DQHTVVVMDQASVHKNAEIEEKIEDWKakNVEIFWLPTYSPHLNLIEIFWRFMKY
EWI"
/note="IS630 e-value= 1.1e-24 fragment hit coverage=
88.56%, between model(376 aa) positions 1; 333 length is
301aa with 36 gaps, 0 stops, absolute frame= Minus1"

CDS complement(2587106..2586868)
/colour="255 0 0"

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/evidence=predicted
/translation="RNQQHYIROQLTAIKLLNEGHSRTQVSEQVGCSDTLTRWMDKY
LDGGLOGLVQPI--RHQKPSRLSPREEQQQLKEMVLTQR"
/note="IS481 e-value= 1.2e-07 fragment hit coverage=
23.36%, between model( 351 aa) positions 1; 82 length is
80aa with 2 gaps, 0 stops, absolute frame= Minus1"
CDS complement(2587079..2586673)
/colour="255 0 0"
/evidence=predicted
/translation="RLTAIKLLNEGHSRTQVSEQVGCSDTLTRWMDKYLDGG---LQ
GLVQPIRHQKPSRLSPREEQQQLKEMVLTQRPTDYGIDRNMWTGAILAVVIEQRFEVQL
KDSRIYELLSELGLSYQRAHRDYA--NADLNAQKEWVAA"
/note="IS630 e-value= 1.9e-29 fragment hit coverage=
37.50%, between model( 376 aa) positions 30; 170 length
is 136aa with 5 gaps, 0 stops, absolute frame= Minus1"
CDS complement(2498918..2498134)
/colour="255 0 0"
/evidence=predicted
/translation="CLAAXPNATLSHFQQSMKCLYCVIM--EHNSTHCLPLMGRRHQI
KALSQSNRRLKMGLIGFTRSWISPNELNLHRWHQEVEEXAASSKRLFKEK-----XVKLS
RYXsVNTQTLDRTXRAMPTAYDSDLTTLQWELLEPLIPAAKP-GGRPRT-TDMLSVLN
AIFYLVVTGCQWRQLPHDFPCWSTVYSYFRRWRDDGTWVHINEHLRMQERVSE-----
-----DRHPSPSAAICDAQSVKVG NPRCHSIGFDGgkmv
KGRKRHVLDVTLGLVL-MVMVTAAN"
/note="IS5_IS427 e-value= 7.3e-07 complete sequence hit
coverage= 100%, between model( 296 aa) positions 1; 296
length is 262aa with 39 gaps, 5 stops, absolute frame=
Minus1"
CDS complement(2498615..2497765)
/colour="255 0 0"
/evidence=predicted
/translation="TQTLDRTXRAM-----PTAYDSDLTTLQWELLEPLIPAAK-----
---PGGRPRTTDMLSVLN AIFYLVVTGCQWRQLPHDFPCWSTVYSYFRRWRDDGTWVH
INEHLRMQERVSEDRHPSPSAAICDAQSVKVG NPRCH-SIGFDGgkmvKGRKRHVLDV
TLGLVLMVMVTAANISDQR-GAKILFWKARRQGaslSRLVRIWADAGYQGQALMKWVM
DRSQYVLEVIKRS DNLAGFQVVS KRWIVERTFGWLLWSRRLNKDYEV LTRTAEALVYV
AMIRLMVRR LAQEHXNFSNLX"
/note="IS5_IS1031 e-value= 3.2e-108 complete sequence hit
coverage= 100%, between model( 295 aa) positions 1; 295
length is 284aa with 14 gaps, 3 stops, absolute frame=
Minus1"
CDS complement(2498573..2497765)
/colour="255 0 0"
/evidence=predicted
/translation="YDSDLTTLQWELLEPLIPAAK-----PGGRPRTTDMLSVLNA
IFYLVVTGCQWRQLPHDFPCWSTVYSYFRRWRDDGTWVHINEHLRMQERVSEDRHPS
SAAICDAQSVKVG NPRCH-SIGFDGgkmvKGRKRHVLDVTLGLVLMVMVTAANISDQR
-GAKILFWKARRQGaslSRLVRIWADAGYQGQALMKWVMDRSQYVLEVIKRS DNLAGF
QVVS KRWIVERTFGWLLWSRRLNKDYEV LTRTAEALVYVAMIRLMVRR LAQEHXNFS
SLX"
/note="IS5_IS1031 e-value= 2.1e-110 fragment hit
coverage= 93.56%, between model( 295 aa) positions 20;
295 length is 270aa with 9 gaps, 2 stops, absolute frame=
Minus1"
CDS complement(2498564..2498326)
/colour="255 0 0"
/evidence=predicted
/translation="DLTTLQWELLEPLIPAAKP-GGRPRT-TDMLSVLN AIFYLVVTG
CQWRQLPHDFPCWSTVYSYFRRWRDDGTWVHINEHLRM"
/note="IS5_IS427 e-value= 3.3e-18 fragment hit coverage=

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27.70%, between model(296 aa) positions 125; 206 length is 80aa with 2 gaps, 0 stops, absolute frame= Minus1" complement(2405255..2405098) /colour="255 0 0" /evidence=predicted /translation="HHPHPRVQRRMEVLYLKSQGLPHAQICQLCQISRPTLAKTLRLY QGGIEGLK" /note="IS481 e-value= 1.1e-08 fragment hit coverage= 15.10%, between model(351 aa) positions 1; 53 length is 53aa with 0 gaps, 0 stops, absolute frame= Minus1" complement(2383214..2382808) /colour="255 0 0" /evidence=predicted /translation="MLLVRPISTESLRLHRIYHSSRHHQVRQRAHCLILFAQGWPY TLASLFSVSPKTVYNWLKAWNNRG---FAGLYNHPPGRGRKPMFNPDQQQIYEWTOA SPIQ-----LNQVLAQIEQQWSVRVSKATVKRVLKQMDMSWHR" /note="IS630 e-value= 8.7e-15 fragment hit coverage= 39.63%, between model(376 aa) positions 1; 149 length is 136aa with 13 gaps, 0 stops, absolute frame= Minus1" complement(2383154..2382817) /colour="255 0 0" /evidence=predicted /translation="SSRHHQVRQRAHCLILFAQGWPYTLASLFSVSPKTVYNWLKAW NNRGFAGLYNH---PGRGRKPMfNPDQQQIYEWTOASPIQLNQVLAQIEQQWSVR-- -VSKATVKRVLKQMDMS" /note="IS481 e-value= 3.5e-09 fragment hit coverage= 33.62%, between model(351 aa) positions 1; 118 length is 113aa with 6 gaps, 0 stops, absolute frame= Minus1" complement(2285066..2284843) /colour="255 0 0" /evidence=predicted /translation="SQMSTLTCPNCRSQN-VVKNGRIHNGKQNHKCKTCGRQFV--EA PQQKRIDSSTKGLIDKLLLEKIPLAGIARVCDVS" /note="IS1_ORF1 e-value= 3.6e-14 fragment hit coverage= 32.64%, between model(239 aa) positions 1; 78 length is 75aa with 3 gaps, 0 stops, absolute frame= Minus1" complement(1924193..1923499) /colour="255 0 0" /evidence=predicted /translation="FKHLHLGMIIsDIKRKSLPAIARAVGLENHQSLHHLFSESPWVAS hLSDkRLDIILKILDGRRLILLID-----ETGDCKKGKSTDYVKR QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY" /note="IS4 e-value= 4.7e-14 fragment hit coverage= 51.23%, between model(486 aa) positions 1; 249 length is 232aa with 27 gaps, 0 stops, absolute frame= Minus1" complement(1924193..1923067) /colour="255 0 0" /evidence=predicted /translation="FKHLHLGMIIsDIKRKSLPAIARAVGLENHQSLHHLFSESPWVAS hLSDkRLDIILKILDGRRLILLID-----ETGDCKKGKSTDYVKR QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP AEQAVFAEPWQSFERTFSNGT-----TETRYR QEIIYGQRHHQKRYWLLTTDPQTLPENSTS-----YVMAA APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TLGWADFRMTHYEQIEKWWEIVMSA FLMVSLFADVFNDS-----CPVAHQHFAQHPwWDNONG WKNLLNNVR--LIIQPLIS----WNLLKRWLEVFPSRALKKGF" /note="IS4 e-value= 9.9e-07 complete sequence hit

coverage= 100%, between model(486 aa) positions 1; 486 length is 376aa with 117 gaps, 0 stops, absolute frame= Minus1"

CDS complement(1895579..1895383)
/colour="255 0 0"
/evidence=predicted
/translation="ASPIELSQQQHHCLTQIVRQTTNPYRLVRRASIILSAAGESNT QISRQQLDRNQVRYWRQRWLD"
/note="IS630 e-value= 4e-07 fragment hit coverage= 17.55%, between model(376 aa) positions 1; 66 length is 66aa with 0 gaps, 0 stops, absolute frame= Minus1"

CDS complement(1336244..1335394)
/colour="255 0 0"
/evidence=predicted
/translation="TQTLDRTXRAM-----PTAYDSLTAEQWELLEPLIPAAK-----PGRPRTTDMRSVLNAILYLVTGQWRQLPHDFPCWSTVYSYFRRWRDDGTWVH INEHLRMQERVSEDRHPSRAAICDAQSVKVG NPRCH-SIGFDGGKQIKGRKRHVLDV TLGLVLMVIVTAANISDQR-GAKILFWKARRQGaslSRLVRIWADAGYQGQAFMKWVM DRFQYVLEVIKRSNDLAGFQVVPKRWIVERTFGWLLWSRRLNKDYELLTRTAEALAYV AMIRLMVRRRLAQEYXNFSNLX"
/note="IS5_IS1031 e-value= 3e-112 complete sequence hit coverage= 100%, between model(295 aa) positions 1; 295 length is 284aa with 14 gaps, 3 stops, absolute frame= Minus1"

CDS complement(1336202..1335394)
/colour="255 0 0"
/evidence=predicted
/translation="YDSLTAEQWELLEPLIPAAK-----PGRPRTTDMRSVLNAILYLVTGQWRQLPHDFPCWSTVYSYFRRWRDDGTWVH INEHLRMQERVSEDRHPS RAAICDAQSVKVG NPRCH-SIGFDGGKQIKGRKRHVLDVTLGLVLMVIVTAANISDQR -GAKILFWKARRQGaslSRLVRIWADAGYQGQAFMKWVM DRFQYVLEVIKRSNDLAGF QVVPKRWIVERTFGWLLWSRRLNKDYELLTRTAEALAYVAMIRLMVRRRLAQEYXNFSN SLX"
/note="IS5_IS1031 e-value= 2.4e-114 fragment hit coverage= 93.56%, between model(295 aa) positions 20; 295 length is 270aa with 9 gaps, 2 stops, absolute frame= Minus1"

CDS complement(1336193..1335955)
/colour="255 0 0"
/evidence=predicted
/translation="DLTAEQWELLEPLIPAAKP-GGRPRT-TDMRSVLNAILYLVTG CQWRQLPHDFPCWSTVYSYFRRWRDDGTWVH INEHLRM"
/note="IS5_IS427 e-value= 1.2e-20 fragment hit coverage= 27.70%, between model(296 aa) positions 125; 206 length is 80aa with 2 gaps, 0 stops, absolute frame= Minus1"

CDS complement(1225547..1225171)
/colour="255 0 0"
/evidence=predicted
/translation="EHRKSEDFALCMQYLVDGLFPQADKLHVVDNLNTHspaalyKT FNPDEALRILK-RIQFHYPKHG SWLNMIEFEFSALSROCLNRRIP-DIEQLRYEVTA WEKRRNHDKATVNWLF TVDDARTKLS"
/note="IS630 e-value= 2.3e-07 fragment hit coverage= 32.45%, between model(376 aa) positions 255; 376 length is 126aa with 2 gaps, 0 stops, absolute frame= Minus1"

CDS complement(1184315..1183279)
/colour="255 0 0"
/evidence=predicted
/translation="PMIKIDFTAEEIQQLNYERYHHHPHPRVQRRMEVLYLKSQGLSHT QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQPSLLNAHS-DSVRAYFEQH PP-----RTSAEAQAVIEQLTG IKRSP TQIKAF LKRIGCRYRKVGYVPGKSSLP

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-EKIEEQEQFRHTRLEPLleeAQRQERLVFFVDAAHFVHRAYLGF-VWCITRI-----
-----FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL
DPV-IPISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSRHLNLIERLWRFVVRKE
CLYSKYYADFPAPFKGAIQQCIDQCNGEHKAKLTLLSLKQSFKK"
/note="IS630 e-value= 3.5e-21 complete sequence hit
coverage= 100%, between model( 376 aa) positions 1; 376
length is 346aa with 33 gaps, 0 stops, absolute frame=
Minus1"
CDS complement(1184315..1183279)
/colour="255 0 0"
/evidence=predicted
/translation="PMIKIDFTAEEIQQLNYERYHHPHPRVQRRMEVLYLKSQGLSHT
QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQGPSLLNAHS-DSVRAYFEQH
PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRYRKVGVYVPGKSSLP
-EKIEEQEQFRHTRLEPLleeAQRQERLVFFVDAAHFVHRAYLGF-VWCITRI-----
-----FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL
DPV-IPISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSRHLNLIERLWRFVVRKE
CLYSKYYADFPAPFKGAIQQCIDQCNGEHKAKLTLLSLKQSFKK"
/note="IS630 e-value= 3.1e-22 complete sequence hit
coverage= 100%, between model( 376 aa) positions 1; 376
length is 346aa with 33 gaps, 0 stops, absolute frame=
Minus1"
CDS complement(1184255..1184098)
/colour="255 0 0"
/evidence=predicted
/translation="HHPHPRVQRRMEVLYLKSQGLSHTQICQLCQISRPTLAKTLRQY
QGGIEGLK"
/note="IS481 e-value= 3.7e-09 fragment hit coverage=
15.10%, between model( 351 aa) positions 1; 53 length is
53aa with 0 gaps, 0 stops, absolute frame= Minus1"
CDS complement(1119713..1118947)
/colour="255 0 0"
/evidence=predicted
/translation="--IYPSFITLGRXKNRLDLLHnxvcdMVLSHSNAGRPPKLCRP
DQLLVALQDWREYRTYFHIAGDWGVSESTVCRIVQQVetaHELRTLP----PTRQETS
NTRIXAAXCCRDGCDXDTDXTSpKRTKSVLCRKKRHTLKCQIIADRNTLEIICLSFG
KRRRHDFQVFKVSGVHIHPDTESELLDSGYQG-----NSYVPLKKPQQGELTSLEREY
NHALSQERIGIEHINRSLKMFRI LSERYCNR RRRRYS LR CNL IAAIYNYEL"
/note="IS5_ISL2 e-value= 6.5e-76 complete sequence hit
coverage= 100%, between model( 260 aa) positions 1; 260
length is 256aa with 12 gaps, 5 stops, absolute frame=
Minus1"
CDS complement(1119629..1118947)
/colour="255 0 0"
/evidence=predicted
/translation="SHSNAGRPPKLCRPDQLLVALQDWREYRTYFHIAGDWGVSESTV
CRIVQQVetaHELRTLP----PTRQETS NTRIXAAXCCRDGCDXDTDXTSpKRTKSVL
CRKKRHTLKCQIIADRNTLEIICLSFGKRRRHDFQVFKVSGVHIHPDTESELLDSGYQ
G-----NSYVPLKKPQQGELTSLEREYNHALSQERIGIEHINRSLKMFRI LSERYCN
RRRYS LR CNL IAAIYNYEL"
/note="IS5_ISL2 e-value= 1.1e-77 fragment hit coverage=
90.38%, between model( 260 aa) positions 26; 260 length
is 228aa with 10 gaps, 4 stops, absolute frame= Minus1"
CDS complement(826598..826267)
/colour="255 0 0"
/evidence=predicted
/translation="QRVKDRAAMIRLSHQGMYVEKIAALFQCNVRTVROT LHRWQKG
---LGGLWDAPHPGAQRRWNPED-IEYLETCLRQEERTY-----NSQQLSOKLAKE
RNVHLSADRIRQILKRGXS"
/note="IS630 e-value= 8.8e-10 fragment hit coverage=

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32.45%, between model(376 aa) positions 25; 146 length is 111aa with 11 gaps, 1 stops, absolute frame= Minus1" complement(741935..741721) /colour="255 0 0" /evidence=predicted /translation="REIHEAIGVSIERTIERVVRMRFVEEG---LEAAINQRsGAGRKRK IQEEQEAHLIALRCSEPPVG----HARWTLRLLAD" /note="IS630 e-value= 2.5e-08 fragment hit coverage= 20.74%, between model(376 aa) positions 44; 121 length is 72aa with 7 gaps, 0 stops, absolute frame= Minus1" complement(669422..669199) /colour="255 0 0" /evidence=predicted /translation="SQMSTLTCPNCRSQN-VVKNGRIHNGKQNHKCKTCGRQFV--EA PQQKRIDSSTKGLIDKLLLEKIPLAGIARVCDVS" /note="IS1_ORF1 e-value= 3.6e-14 fragment hit coverage= 32.64%, between model(239 aa) positions 1; 78 length is 75aa with 3 gaps, 0 stops, absolute frame= Minus1" complement(517589..517393) /colour="255 0 0" /evidence=predicted /translation="GKHKQILLVLDGAGWHTC---KNRVVPPG--IHLKILPPYSPEL QPAERLWRLADEPLAN-QCFETLDDLED" /note="IS630 e-value= 1.4e-09 fragment hit coverage= 19.15%, between model(376 aa) positions 275; 346 length is 66aa with 6 gaps, 0 stops, absolute frame= Minus1" complement(481079..480364) /colour="255 0 0" /evidence=predicted /translation="YLSPEL-LXCRASSKVSMXSTVGSPPS-----ILARISDL FPHCWRLGSLXINRLPYCpGRDRSDELRTLSLTRSEISATR-----VRATGCR CDGCDXNAHXTSPDKTKSVLF----RKKKRHTFKYQIIANRNTLEIICLNVGPGRRHD FQIFKVSIGIHIHPDTESLQDSGYQGIAAYHTNSYVPLKKPQHGELETSLQREYNRALSQ ERMGIEHINRSLKIFRILSERYRNRRRRYALRCNLIAAIYNYEL" /note="IS5_ISL2 e-value= 1e-38 complete sequence hit coverage= 100%, between model(260 aa) positions 1; 260 length is 239aa with 23 gaps, 5 stops, absolute frame= Minus1" complement(480764..480364) /colour="255 0 0" /evidence=predicted /translation="KKKRHTFKYQIIANRNTLEIICLNVGPGRRHDFQIFKVSIGIHIHPDTESLQDSGYQGIAAYHTNSYVPLKKPQHGELETSLQREYNRALSQERMGIEHINRSLKIFRILSERYRNRRRRYALRCNLIAAIYNYEL" /note="IS5_ISL2 e-value= 2.5e-62 fragment hit coverage= 51.54%, between model(260 aa) positions 127; 260 length is 134aa with 0 gaps, 0 stops, absolute frame= Minus1" complement(476648..475171) /colour="255 0 0" /evidence=predicted /translation="DSYHTRVYMNGRDLGLKQAEAAAYIAEISTRGQRIEAGTHQPNR -GRLQD-----QRTVPDPLADVWE---DELEPMLRRDPRLKPMPLYEYLQD-KYPG QYPQVlrtlQRRVRTWKALHGPS-----PEVMFELRHEPGVQGFSGFTELKGITITIA GQPFEHLIYHYRLGYSGWRYAQIIQGgESFVALSEGLQNAFAACGGVPPQHRDLSLA AYRNMGRRS-KNLTRLYDELCDHYRLEPTRNNKG--IAHENGSIESPHGHLKNRIKQ AIYLRGSAD-----FTSVAEYQALIDAQVAKLNQOCQTK-----YEQEKDHLQPLPK YRTPDYEVLTATA----KVSKRSTIDVRCILYTVPSRLIGRQLELHLYHDRVGYLERHP VVELPRKRVSGkGKRRDRCINRHHVIGSMRLKPRAFIYCTWQSDLLPNPEYRQIWEQL KAQFDLEQAAKIIVEALYIAAVQDKEQAVAVYLOQLOQASSLTLNRLKKQFEPQMKQ VPDLSieQHS----LELYDKLLPS"

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/note="IS21_ORF1 e-value= 5e-20 complete sequence hit
coverage= 100%, between model( 525 aa) positions 1; 525
length is 493aa with 39 gaps, 0 stops, absolute frame=
Minus1"
CDS complement(476378..475549)
/colour="255 0 0"
/evidence=predicted
/translation="QYPQVLRTLQRRVRTWKALHGPS-----PEVMFELRHEPGVQGF
SGFTELKGITITIAGQPFEHLIYHYRLGYSGWRYAQIIQGgESFVALSEGLQNAFAAC
GGVPPQHRDLSLSAAYRNMGGRRS-KNLTRLTYDELCDHYRLEPTRNNKG--IAHENG
IESPHGHLKNRIKQAIYLRGSAD-----FTSVAEYQALIDAQVAKLNQOCQTK-----
-YEQEKDHLQPLPKYRTPDYEVLT-----KVSKRSTIDVRCILYTVPSRLIGRQLELH
LYHDRIVGY-----LERHPVVELPRKRVS"
/note="IS21_ORF1 e-value= 3.2e-28 fragment hit coverage=
57.90%, between model( 525 aa) positions 99; 402 length
is 277aa with 28 gaps, 0 stops, absolute frame= Minus1"
CDS complement(408932..408064)
/colour="255 0 0"
/evidence=predicted
/translation="EKXVKLSRYXSVNTQTLDRTXramptaYDSDLTTLQWELLEPLI
PAAKPG-----GRPRTDML-----SVLNAIFYLVVTCQWRQ
--LPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRMQVRVSED---RHSPSAAICDAQ
SVK-----VGNpRcHLIGFD-----GGKM-
-----VKGRKRHVLD-TL
GLVLMVMVTAANISDQRGAK-----ILFWKAQRQGASLSRL
VR----IWADAGYQGQALMKWMDRFQYVLEVIKRSNDLAGFQVVPKRWIVERTFGWL
LWSRRLNKDYEVLTRTAEALVYVAMIRLMVRRLAQEHX"
/note="IS5_IS5 e-value= 1.3e-09 complete sequence hit
coverage= 100%, between model( 422 aa) positions 1; 422
length is 290aa with 140 gaps, 4 stops, absolute frame=
Minus1"
CDS complement(408893..408043)
/colour="255 0 0"
/evidence=predicted
/translation="TQTLDRTXRAM-----PTAYDSDLTTLQWELLEPLIPAAK----
---PGGRPRTDMLSVLNAIFYLVVTCQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQ
INEHLRMQVRVSEDRHSPSAAICDAQSVKVG NPRCH-LIGFDGGKMVKGRKRHVLD
TLGLVLMVMVTAANISDQR-GAKILFWKAQRQGasLSRLVRIWADAGYQGQALMKWV
DRFQYVLEVIKRSNDLAGFQVVPKRWIVERTFGWLLWSRRLNKDYEVLTRTAEALVY
AMIRLMVRRLAQEHXNFSNLL"
/note="IS5_IS1031 e-value= 4.2e-111 complete sequence hit
coverage= 100%, between model( 295 aa) positions 1; 295
length is 284aa with 14 gaps, 2 stops, absolute frame=
Minus1"
CDS complement(408851..408043)
/colour="255 0 0"
/evidence=predicted
/translation="YDSDLTTLQWELLEPLIPAAK-----PGGRPRTDMLSVLNA
IFYLVVTCQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRMQVRVSEDRHSP
SAAICDAQSVKVG NPRCH-LIGFDGGKMVKGRKRHVLDTLGLVLMVMVTAANISDQR
-GAKILFWKAQRQGasLSRLVRIWADAGYQGQALMKWMDRFQYVLEVIKRSNDLAGF
QVVPKRWIVERTFGWLLWSRRLNKDYEVLTRTAEALVYVAMIRLMVRRLAQEHXNFSN
SLL"
/note="IS5_IS1031 e-value= 2.8e-113 fragment hit
coverage= 93.56%, between model( 295 aa) positions 20;
295 length is 270aa with 9 gaps, 1 stops, absolute frame=
Minus1"
CDS complement(408842..408604)
/colour="255 0 0"
/evidence=predicted

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/translation="DLTTLQWELLEPLIPAAKP-GGRPRT-TDMLSVLNAIFYLVVTG
CQWRQLPHDFPCWSTVYSYFRRWRDDGTSQINEHLRM"
/note="IS5_IS427 e-value= 2e-19 fragment hit coverage=
27.70%, between model( 296 aa) positions 125; 206 length
is 80aa with 2 gaps, 0 stops, absolute frame= Minus1"
CDS complement(129620..128584)
/colour="255 0 0"
/evidence=predicted
/translation="PMIKIDFTAEEIQQLNYERYHHPHPRVQRRMEVLYLKSQGLSHT
QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQPSLLNAHS-DSVRAYFEQH
PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRYRKVGVVPGKSSLP
-EKIEEQEQFRHTRLEPLleeAQRQERLVFFVDAAHFVHRAYLGF-VWCITRI-----
-----FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL
DPV-IPISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPLNLIERLWRFVVRKE
CLYSKYYADFPAPFKGAIQQCIDQCNGEHKAKLTLLSLKFQSFKK"
/note="IS630 e-value= 4.9e-24 complete sequence hit
coverage= 100%, between model( 376 aa) positions 1; 376
length is 346aa with 33 gaps, 0 stops, absolute frame=
Minus1"
CDS complement(129620..128584)
/colour="255 0 0"
/evidence=predicted
/translation="PMIKIDFTAEEIQQLNYERYHHPHPRVQRRMEVLYLKSQGLSHT
QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQPSLLNAHS-DSVRAYFEQH
PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRYRKVGVVPGKSSLP
-EKIEEQEQFRHTRLEPLleeAQRQERLVFFVDAAHFVHRAYLGF-VWCITRI-----
-----FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL
DPV-IPISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPLNLIERLWRFVVRKE
CLYSKYYADFPAPFKGAIQQCIDQCNGEHKAKLTLLSLKFQSFKK"
/note="IS630 e-value= 6.7e-25 complete sequence hit
coverage= 100%, between model( 376 aa) positions 1; 376
length is 346aa with 33 gaps, 0 stops, absolute frame=
Minus1"
CDS complement(129560..129403)
/colour="255 0 0"
/evidence=predicted
/translation="HHPHPRVQRRMEVLYLKSQGLSHTQICQLCQISRPTLAKTLRQY
QGGIEGLK"
/note="IS481 e-value= 3.7e-09 fragment hit coverage=
15.10%, between model( 351 aa) positions 1; 53 length is
53aa with 0 gaps, 0 stops, absolute frame= Minus1"
CDS complement(105725..105655)
/colour="255 0 0"
/evidence=predicted
/translation="HVHMLISIPPKYSVLNVMGYIKGK"
/note="IS200 e-value= 5.3e-11 fragment hit coverage=
15.58%, between model( 154 aa) positions 61; 84 length is
24aa with 0 gaps, 0 stops, absolute frame= Minus1"
CDS complement(105725..105655)
/colour="255 0 0"
/evidence=predicted
/translation="HVHMLISIPPKYSVLNVMGYIKGK"
/note="IS200_IS605 e-value= 2.1e-10 fragment hit
coverage= 15.69%, between model( 153 aa) positions 61; 84
length is 24aa with 0 gaps, 0 stops, absolute frame=
Minus1"
CDS complement(105725..105655)
/colour="255 0 0"
/evidence=predicted
/translation="HVHMLISIPPKYSVLNVMGYIKGK"

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/note="IS605 e-value= 2.8e-08 fragment hit coverage=
15.79%, between model( 152 aa) positions 61; 84 length is
24aa with 0 gaps, 0 stops, absolute frame= Minus1"
CDS complement(100253..99016)
/colour="255 0 0"
/evidence=predicted
/translation="IRIPLNLPDI--RVLELSKTERGDWL-----IKIESTLQGTTC
HQCGREITDL-HCHDQ-PFRIRHLPLFEVPVYLEIRPKRYRCKYCDDhpTTTQHLEWH
EPRSPNTKAYERWLLRILIN-STVSDVARKLGVSEDIVSGIIDRWIAAQVDWSEYADL
KVMGMDEISLKRK--HR---DFVVLITIPtTdgVDILAVLADRKQQTVANFLQSIP-I
DLRQTIERVCTDMYQGFVSAVREQLPQAKIVIDRFHVTKAYRNCADTVRKREVKRLRR
ELS-----KQEYD-----SIKGAMWPFKRKPENLKES-EQOLLER
LFA--YSPQLKQAYNLREKLTQIFEGRYTKHGAKcAIRAWCKQVLKSDiKEFDCFLTT
INNWMDEMTNYFLEG-WTSGFVEGFNRRVKVLKRRCYGIFDIERLRFQRIISLDLNGYQT
FAVTXTL"
/note="ISL3 e-value= 1.8e-43 complete sequence hit
coverage= 100%, between model( 451 aa) positions 1; 451
length is 413aa with 44 gaps, 1 stops, absolute frame=
Minus1"
CDS complement(100094..99016)
/colour="255 0 0"
/evidence=predicted
/translation="RIRHLPLFEVPVYLEIRPKRYRCKYCDDhpTTTQHLEWHEPRSP
NTKAYERWLLRILIN-STVSDVARKLGVSEDIVSGIIDRWIAAQVDWSEYADLKVMGM
DEISLKRK--HR---DFVVLITIPtTdgVDILAVLADRKQQTVANFLQSIP-IDLRQT
IERVCTDMYQGFVSAVREQLPQAKIVIDRFHVTKAYRNCADTVRKREVKRLRRELS--
-----KQEYD-----SIKGAMWPFKRKPENLKES-EQOLLERLFA--
YSPQLKQAYNLREKLTQIFEGRYTKHGAKcAIRAWCKQVLKSDiKEFDCFLTTINNWM
DEMTNYFLEG-WTSGFVEGFNRRVKVLKRRCYGIFDIERLRFQRIISLDLNGYQTFAVTX
TL"
/note="ISL3 e-value= 1e-49 fragment hit coverage= 86.03%,
between model( 451 aa) positions 64; 451 length is 360aa
with 34 gaps, 1 stops, absolute frame= Minus1"
CDS complement(6333589..6332766)
/colour="255 0 0"
/evidence=predicted
/translation="XRIKXKNYILINSNXXKINIKLNYKLIKIRRXAF-----IGNEV
PIXLKXLNYXQLDKLXRLMQWLKKKLVKQRFKPTQLVXSIVEVvtlrtfplksaITX
RLFEXVKLSRYXsVNTQTLDRTXRAMPTAYDSDLTTLQWELLEPLIPAAKP-GGRPR
T-TDMLSVLNAIFYLVTGQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRMQ
VRVSE-----DRHPSPSAAICDAQSVkvgnpRCH
LIGFDGGKMKVGRKRHVLDVTLGLVLMVMVTAANIS"
/note="IS5_IS427 e-value= 2.1e-06 complete sequence hit
coverage= 100%, between model( 296 aa) positions 1; 296
length is 275aa with 37 gaps, 14 stops, absolute frame=
Minus2"
CDS complement(6333292..6332424)
/colour="255 0 0"
/evidence=predicted
/translation="EKXVKLSRYXSVNTQTLDRTXramptaYDSDLTTLQWELLEPLI
PAAKPG-----GRPRTDML-----SVLNAIFYLVTGQWRQ
--LPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRMQVRVSED---RHPSPSAAICDAQ
SVK-----VGNpRcHLIGFD-----GGKM-
-----VKGRKRHVLD-TL
GLVLMVMVTAANISDQRGAK-----ILFWKAQRQGASLSRL
VR----IWADAGYQGOALMKWMDRFQYVLEVVKRSDNLAGFQVIPKRWIVERTFGWL
LWSRRLNKDYEVLTRTAEALVYVAMIRLMVRRLAQEHX"
/note="IS5_IS5 e-value= 1.8e-09 complete sequence hit
coverage= 100%, between model( 422 aa) positions 1; 422
length is 290aa with 140 gaps, 4 stops, absolute frame=

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Minus2"

CDS complement(6333253..6332403)
/colour="255 0 0"
/evidence=predicted
/translation="TQTLDRTXRAM-----PTAYDSLTTLQWELLEPLIPAAK-----
---PGGRPRTDMLSVLNNAIFYLVVTCQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQ
INEHLRMQVRVSEDRHSPSPAICDAQSVKVG NPRCH-LIGFDGGKMKVGRKRHVLD
TLGLVLMVMVTAANISDQR-GAKILFWKAQRQGaslSRLVRIWADAGYQGQALMKWVM
DRFQYVLEVVKRSDNLAGFQVIPKRWIVERTFGWLLWSRRLNKDYEVLTRTAEALVYV
AMIRLMVRRLAQEHNFSNSLL"
/note="IS5_IS1031 e-value= 3.6e-111 complete sequence hit
coverage= 100%, between model(295 aa) positions 1; 295
length is 284aa with 14 gaps, 2 stops, absolute frame=
Minus2"

CDS complement(6333211..6332403)
/colour="255 0 0"
/evidence=predicted
/translation="YDSLTTLQWELLEPLIPAAK-----PGGRPRTDMLSVLNA
IFYLVVTCQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRMQVRVSEDRHSP
SAAICDAQSVKVG NPRCH-LIGFDGGKMKVGRKRHVLDTLGLVLMVMVTAANISDQR
-GAKILFWKAQRQGaslSRLVRIWADAGYQGQALMKWVM DRFQYVLEVVKRSDNLAGF
QVIPKRWIVERTFGWLLWSRRLNKDYEVLTRTAEALVYVAMIRLMVRRLAQEHNFSN
SLL"
/note="IS5_IS1031 e-value= 2.4e-113 fragment hit
coverage= 93.56%, between model(295 aa) positions 20;
295 length is 270aa with 9 gaps, 1 stops, absolute frame=
Minus2"

CDS complement(6333202..6332964)
/colour="255 0 0"
/evidence=predicted
/translation="DLTTLQWELLEPLIPAAKP-GGRPRT-TDMLSVLNNAIFYLVVTC
CQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRM"
/note="IS5_IS427 e-value= 2e-19 fragment hit coverage=
27.70%, between model(296 aa) positions 125; 206 length
is 80aa with 2 gaps, 0 stops, absolute frame= Minus2"

CDS complement(6280795..6279558)
/colour="255 0 0"
/evidence=predicted
/translation="IRIPLNLPDI--RVLELSKTERGDWL-----IKIESTLQGTTC
HQCGREITDL-HCHDQ-PFRIRHLPLFEVPVYLEIRPKRYRCKYCDDhpTTTQHLEWH
EPRSPNTKAYERWLLRILIN-STVSDVARKLGVSEDIVSGIIDRWIAAQVDWSEYADL
KVMGMDEISLKR--HR---DFVVLITIPTTdgVDILAVLADRKQQTVANFLQSIP-I
DLRQTIERVCTDMYQGFVSAVREQLPQAKIVIDRFHVTKAYRNCADTVRKREVKRLRR
ELS-----KQEYD-----SIKGAMWPFKRKPENLKES-EQOLLER
LFA--YSPQLKQAYNLREKLTQIFEGRYTKHGAKcAIRAWCKQVLKSDiKEFDCFLTT
INNWMDEMTNYFLEG-WTSGFVEGFNNRVKVLKRRRCYGFIDIERLRFQIRISLDLNGYQT
FAVTXTL"
/note="ISL3 e-value= 1.8e-43 complete sequence hit
coverage= 100%, between model(451 aa) positions 1; 451
length is 413aa with 44 gaps, 1 stops, absolute frame=
Minus2"

CDS complement(6280636..6279558)
/colour="255 0 0"
/evidence=predicted
/translation="RIRHLPLFEVPVYLEIRPKRYRCKYCDDhpTTTQHLEWHEPRSP
NTKAYERWLLRILIN-STVSDVARKLGVSEDIVSGIIDRWIAAQVDWSEYADLKVMGM
DEISLKR--HR---DFVVLITIPTTdgVDILAVLADRKQQTVANFLQSIP-IDLRQT
IERVCTDMYQGFVSAVREQLPQAKIVIDRFHVTKAYRNCADTVRKREVKRLRRELS--
-----KQEYD-----SIKGAMWPFKRKPENLKES-EQOLLERLFA--
YSPQLKQAYNLREKLTQIFEGRYTKHGAKcAIRAWCKQVLKSDiKEFDCFLTTINNWM

DEMTNYFLEG-WTSGFVEGFNNRVKVLKRRRCYGIFDIERLFQORISLDLNGYQTFVAVTX
 TL"
 /note="ISL3 e-value= 1e-49 fragment hit coverage= 86.03%,
 between model(451 aa) positions 64; 451 length is 360aa
 with 34 gaps, 1 stops, absolute frame= Minus2"
 CDS complement(6250273..6249804)
 /colour="255 0 0"
 /evidence=predicted
 /translation="EAVYILDGLLKN--TSEIQPDTIHGDTQSQSCTVFALAFLLGIT
 LMPRIRGWQNLAFYRPsRGTRYK--HLDSLFTVTDWDLIETHLPDMLRVALSIKDGK
 VQASTLLRKLGTNSRKNKLFQAFHELGGVLRITIFLLQYINDPQMQETIHAETNKCEAF
 N"

/note="Tn3 e-value= 2.6e-14 fragment hit coverage=
 15.94%, between model(1004 aa) positions 740; 899 length
 is 157aa with 4 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(6238489..6238101)
 /colour="255 0 0"
 /evidence=predicted
 /translation="FFMDESGFSLVPCIPY-GWQPIG-----TYL-EIPT
 RSSKRLNVLGFLSRRQGL--HAYTSEQTITSEVVShCIDTFFADV--ELPTVIVVDQA
 PIHTSQsiyEMKAEWAERG--ITLFEPLSPHNLIERLWQFMKYQWI"

/note="IS630 e-value= 6.5e-11 fragment hit coverage=
 39.10%, between model(376 aa) positions 187; 333 length
 is 130aa with 21 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(6232594..6231831)
 /colour="255 0 0"
 /evidence=predicted
 /translation="SPYQHLSLYLKKLRLSHMLTHWESIESQA-MQENWSYAEFLAL
 CETEAQRREQARLKRALTEARLPNA-KSFTNFDFSHCPQLNPAPLMQLAAdPGWLER
 ENCLILGPSGVGKTHLATGVSKKMLEFGKRVKFFAANALVQHLQOAKLQQLH-PMLK
 KLDYDLLVLDLGYCKKSEAETSVLFELIAHRYERKSLITANQPFQWDDIFT-DS
 MVAVAIDRLIHHGLIIKIQADSYRRKSATQRTAQTQSPPO"

/note="IS21_ORF2 e-value= 1.3e-82 complete sequence hit
 coverage= 100%, between model(258 aa) positions 1; 258
 length is 255aa with 4 gaps, 0 stops, absolute frame=
 Minus2"
 CDS complement(6232594..6231831)
 /colour="255 0 0"
 /evidence=predicted
 /translation="SPYQHLSLYLKKLRLSHMLTHWESIESQA-MQENWSYAEFLAL
 CETEAQRREQARLKRALTEARLPNA-KSFTNFDFSHCPQLNPAPLMQLAAdPGWLER
 ENCLILGPSGVGKTHLATGVSKKMLEFGKRVKFFAANALVQHLQOAKLQQLH-PMLK
 KLDYDLLVLDLGYCKKSEAETSVLFELIAHRYERKSLITANQPFQWDDIFT-DS
 MVAVAIDRLIHHGLIIKIQADSYRRKSATQRTAQTQSPPO"

/note="IS21_ORF2 e-value= 3.4e-83 complete sequence hit
 coverage= 100%, between model(258 aa) positions 1; 258
 length is 255aa with 4 gaps, 0 stops, absolute frame=
 Minus2"
 CDS complement(6209392..6208452)
 /colour="255 0 0"
 /evidence=predicted
 /translation="TKNRXPMSYQIRNWSEYNAGLKQRGSVTFWLEQS--AIVHWLET
 TPRQKRGASLTYSDTAISTFETVKCIYGLAGRQTEGFLNSLFELMGIELPVCDDHSTVS
 RRRKQLSISLPVIPKQGAIHVVIDSTGVKVG-----EGEWKTRQHGVS-K
 RRTWRKLHLSVDESTGEILTGVVTTNDVQDGEVFEDLLEGIDD-----EIEQVSAD-G
 AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHGN--NApphpRDQ
 NLRAIRKQGRKRWKKQAHYHRRSLAETTMFRFKTIFGGQVRSRNFNDQATELLLOCA
 LN-RMIQIAKPETVWVE"

/note="IS5_IS903 e-value= 1.1e-96 complete sequence hit
 coverage= 100%, between model(347 aa) positions 1; 347


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length is 314aa with 37 gaps, 1 stops, absolute frame=
Minus2"
CDS      complement(6209392..6208452)
         /colour="255 0 0"
         /evidence=predicted
         /translation="TKNRXPMSYQIRNWSEYNAGLKQRGSVTFWLEQS--AIVHWLET
TPRQKRGASLTYSDTAISTFETVKCIYGLAGRQTEGFLNSLFELMGIELPVC DHSTVS
RRKGQLSISLPVIPKQGAIHVVIDSTGVKVG-----EGEWKTRQHGVS-K
RRTWRKLHLSVDESTGEILTGVVTTNDVQDGEVFE DLLEGGIDD-----EIEQVSAD-G
AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHGN C--NApphpRDQ
NLRAIRKQGRKRWKKQAHYHRRSLAETTMFRFKTIFGGQVRSRNF DNQATELLLOCAA
LN-RMIQIAKPETVWVE"
         /note="IS5_IS903 e-value= 2.2e-96 complete sequence hit
coverage= 100%, between model( 347 aa) positions 1; 347
length is 314aa with 37 gaps, 1 stops, absolute frame=
Minus2"
CDS      complement(6167842..6167601)
         /colour="255 0 0"
         /evidence=predicted
         /translation="VKLAELIPWESFESEYADQFSQ---TMGAPAKPFRVALGTLIIK
EKLGISDAETVEQIRENPYLQYFLGFSEYRESAPFDASML"
         /note="IS5_IS5 e-value= 2.6e-06 fragment hit coverage=
19.91%, between model( 422 aa) positions 23; 106 length
is 81aa with 3 gaps, 0 stops, absolute frame= Minus2"
CDS      complement(6120718..6119784)
         /colour="255 0 0"
         /evidence=predicted
         /translation="CWVGIDVSKQNLDIHIRPSGH-----IFQHPNDKDGISALVASL
ESVS-----IERIVLEATGGMELPAAVALSQA---GMAVAVVNPRQARDFA-KATGQI
AKTDTIDAAILAHFA--EAI RPETRPLASEESQLLGELVTRRHQIVDMITAEKNRLAA
MHGPM--KEHIEQHIE-----
-----WLKTQLNELDEQLQRTIRQTPVWCEQAKLL
KS-----VPGVGDVLSVLLVDLP-ELGKLSR-KIACLVGLAPLNRDSG-KFR
-GKRMIWGGRGRVRTALYMP TLVAIRYNPVLKAFYERLVGQ GK---PKKVALTACMRK
LLIILNAMVKNNQQWNPEMARGAX"
         /note="IS110 e-value= 6.8e-68 complete sequence hit
coverage= 100%, between model( 416 aa) positions 1; 416
length is 312aa with 104 gaps, 1 stops, absolute frame=
Minus2"
CDS      complement(6120718..6119784)
         /colour="255 0 0"
         /evidence=predicted
         /translation="CWVGIDVSKQNLDIHIRPSGH-----IFQHPNDKDGISALVASL
ESVS-----IERIVLEATGGMELPAAVALSQA---GMAVAVVNPRQARDFA-KATGQI
AKTDTIDAAILAHFA--EAI RPETRPLASEESQLLGELVTRRHQIVDMITAEKNRLAA
MHGPM--KEHIEQHIE-----
-----WLKTQLNELDEQLQRTIRQTPVWCEQAKLL
KS-----VPGVGDVLSVLLVDLP-ELGKLSR-KIACLVGLAPLNRDSG-KFR
-GKRMIWGGRGRVRTALYMP TLVAIRYNPVLKAFYERLVGQ GK---PKKVALTACMRK
LLIILNAMVKNNQQWNPEMARGAX"
         /note="IS110 e-value= 2.2e-68 complete sequence hit
coverage= 100%, between model( 416 aa) positions 1; 416
length is 312aa with 104 gaps, 1 stops, absolute frame=
Minus2"
CDS      complement(6013789..6013572)
         /colour="255 0 0"
         /evidence=predicted
         /translation="RIRFVYIPKHTSWLNQIECWFSILVRRLIRRGNF TSKDDLQORI
LEFIEYFNHtMAKPFQWQFKGFQPRLXLM"
         /note="IS630 e-value= 4e-10 fragment hit coverage=

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19.15%, between model(376 aa) positions 305; 376 length is 73aa with 0 gaps, 1 stops, absolute frame= Minus2"

CDS complement(6013741..6013632)
/colour="255 0 0"
/evidence=predicted
/translation="IECWFSILVRRRLIR--RGNFTSKDDLQQRILEFIEYFNH"
/note="IS3_IS150_ORF2 e-value= 2e-08 fragment hit coverage= 10.03%, between model(389 aa) positions 329; 367 length is 37aa with 2 gaps, 0 stops, absolute frame= Minus2"

CDS complement(5927854..5927166)
/colour="255 0 0"
/evidence=predicted
/translation="TDLFKWRHYQFEIILLNVRWYCRYTLSYRNLEEMMG-RGFKVDH ITIHRWVFKYSSELDKR-CRHLKP-THASSRVDETYVKIHXQWRYLRAVDSE-SYTL DFLLTAKRDTKAAKRFLTKALNTXDSWVXISSIQCGRHPAYPPAVEQLQADERIPEKE KVRQVKYLNRRVEQDRIGIKKLVNPGMGFGSCNSARRTLKGFESNMICKVQIKNVGK DDVIG-QIYFINQIFGL"
/note="IS6 e-value= 1.5e-77 complete sequence hit coverage= 100%, between model(235 aa) positions 1; 235 length is 230aa with 5 gaps, 3 stops, absolute frame= Minus2"

CDS complement(5927854..5927166)
/colour="255 0 0"
/evidence=predicted
/translation="TDLFKWRHYQFEIILLNVRWYCRYTLSYRNLEEMMG-RGFKVDH ITIHRWVFKYSSELDKR-CRHLKP-THASSRVDETYVKIHXQWRYLRAVDSE-SYTL DFLLTAKRDTKAAKRFLTKALNTXDSWVXISSIQCGRHPAYPPAVEQLQADERIPEKE KVRQVKYLNRRVEQDRIGIKKLVNPGMGFGSCNSARRTLKGFESNMICKVQIKNVGK DDVIG-QIYFINQIFGL"
/note="IS6 e-value= 6.2e-80 complete sequence hit coverage= 100%, between model(235 aa) positions 1; 235 length is 230aa with 5 gaps, 3 stops, absolute frame= Minus2"

CDS complement(5746405..5745369)
/colour="255 0 0"
/evidence=predicted
/translation="CMIKIDFTAEEIQHLNYERYHHPHPRVQRRMEVLYLKSQGLPHA QICQLCQISRPTLAKTLRLYQGG---IEGLKTLEYKGOSSSLNAHS-DSVRAYFEQH PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRSRKVGYPGKSSLP -EKIEEQEQFRQTRLEPLleeAQRQERLVFVDAAHFVHRAYLGF-LWCLRRI----- FIPSPS-GRQRFNVLGALNAVTKEvTSITNHTYINSHSMCLLLAKLALL DPVI--PISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVRK ECLYSKYYSDFHFSFKGAIQQCIDQCNTTEHKAKLTSLLSLKFQSFQK"
/note="IS630 e-value= 4e-22 complete sequence hit coverage= 100%, between model(376 aa) positions 1; 376 length is 346aa with 34 gaps, 0 stops, absolute frame= Minus2"

CDS complement(5746345..5746188)
/colour="255 0 0"
/evidence=predicted
/translation="HHPHPRVQRRMEVLYLKSQGLPHAQICQLCQISRPTLAKTLRLY QGGIEGLK"
/note="IS481 e-value= 1.1e-08 fragment hit coverage= 15.10%, between model(351 aa) positions 1; 53 length is 53aa with 0 gaps, 0 stops, absolute frame= Minus2"

CDS complement(5746339..5745369)
/colour="255 0 0"
/evidence=predicted
/translation="PHPRVQRRMEVLYLKSQGLPHAQICQLCQISRPTLAKTLRLYQO

GG---IEGLKTLEYKQSSSLNAHS-DSVRAYFEQHPP-----RTSAEAQAVIE
QLTGIKRSPTQIKAFKLRIGCRSRKVGYPGKSSLP-EKIEEQEQFRQTRLEPLleeA
QRQERLVFFVDAAHFVHRAYLGF-LWCLRRI-----FIPSPS-GRQRFN
VLGALNAVTKEvTSITNHTYINSHSMCLLLAKLALLDPVI--PISVILDNARYQKQCL
VTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVVRKECLYSKYYSDFHSFKGAIQOCI
DQCNTTEHKAKLTSLLSLKFQSFQK"
/note="IS630 e-value= 9.5e-24 fragment hit coverage=
94.15%, between model(376 aa) positions 23; 376 length
is 324aa with 34 gaps, 0 stops, absolute frame= Minus2"
CDS complement(5716993..5716776)
/colour="255 0 0"
/evidence=predicted
/translation="RIRFVYIPKHTSWLNQIECWFSILVRRLLIRRGNFTSKDDLQORI
LEFIEYFNHtMAKPFQWQFKGFQPRXLXLM"
/note="IS630 e-value= 4e-10 fragment hit coverage=
19.15%, between model(376 aa) positions 305; 376 length
is 73aa with 0 gaps, 1 stops, absolute frame= Minus2"
CDS complement(5716945..5716836)
/colour="255 0 0"
/evidence=predicted
/translation="IECWFSILVRRLLIR--RGNFTSKDDLQORILEFIEYFNH"
/note="IS3_IS150_ORF2 e-value= 2e-08 fragment hit
coverage= 10.03%, between model(389 aa) positions 329;
367 length is 37aa with 2 gaps, 0 stops, absolute frame=
Minus2"
CDS complement(5652220..5652039)
/colour="255 0 0"
/evidence=predicted
/translation="AVAESFFGTLKTELIYSTTFANRA--MAKTAIAEWIEVFYNRQR
LHSTIGHCAPVQFEENYWR"
/note="IS3_IS150_ORF1 e-value= 1.1e-07 fragment hit
coverage= 20.59%, between model(306 aa) positions 244;
306 length is 61aa with 2 gaps, 0 stops, absolute frame=
Minus2"
CDS complement(5652220..5652060)
/colour="255 0 0"
/evidence=predicted
/translation="AVAESFFGTLKTELIY--STTFANRAMAKTAIAEWIEVFYNRQR
LHSTIGHCAPVQ"
/note="IS3_IS150_ORF2 e-value= 3.7e-12 fragment hit
coverage= 14.14%, between model(389 aa) positions 327;
381 length is 54aa with 2 gaps, 0 stops, absolute frame=
Minus2"
CDS complement(5652220..5652042)
/colour="255 0 0"
/evidence=predicted
/translation="AVAESFFGTLK--TELIYSTTFANRAMAKTAIAEWIEVFYNRQR
LHSTIGHCAPVQFEENYW"
/note="IS3_IS3_ORF1 e-value= 3.3e-23 fragment hit
coverage= 21.68%, between model(286 aa) positions 225;
286 length is 60aa with 2 gaps, 0 stops, absolute frame=
Minus2"
CDS complement(5652220..5652030)
/colour="255 0 0"
/evidence=predicted
/translation="AVAESFFGTLKTELIYSTTFANRAMAKTAIAEWIEVFYNRQRLH
STIGHCAPVQFEENYWRTRH"
/note="IS3_IS3_ORF2 e-value= 1.9e-21 fragment hit
coverage= 22.22%, between model(288 aa) positions 225;
288 length is 64aa with 0 gaps, 0 stops, absolute frame=

Minus2"

CDS complement(5652220..5652012)
/colour="255 0 0"
/evidence=predicted
/translation="AVAESFFGTLKTELIYS----TTFANRAMAKTAIAEWIEVFYNR
QRLHSTIGHCAPVQFEENYWRTRHQTLVAX"
/note="IS3_IS51_ORF1 e-value= 1.5e-22 fragment hit
coverage= 24.10%, between model(307 aa) positions 234;
307 length is 70aa with 4 gaps, 1 stops, absolute frame=
Minus2"

CDS complement(5652220..5652030)
/colour="255 0 0"
/evidence=predicted
/translation="AVAESFFGTLKTELIYSTTFANRAMAKTAIAEWIEVFYNRQRLH
STIGHCAPVQFEENYW-RTRH"
/note="IS3_IS51_ORF2 e-value= 2.3e-14 fragment hit
coverage= 20.50%, between model(317 aa) positions 245;
309 length is 64aa with 1 gaps, 0 stops, absolute frame=
Minus2"

CDS complement(5522092..5521956)
/colour="255 0 0"
/evidence=predicted
/translation="WQTDGWEGYSRQLADE---VIHHVSKALTQRLERTNGILRQQTG
RWHRR"
/note="IS1_ORF2 e-value= 1.6e-12 fragment hit coverage=
20.68%, between model(237 aa) positions 164; 212 length
is 46aa with 3 gaps, 0 stops, absolute frame= Minus2"

CDS complement(5510998..5509761)
/colour="255 0 0"
/evidence=predicted
/translation="IRIPLNLPDI--RVLELSKTERGDWL-----IKIESTLQGTTC
HQCGREITDL-HCHDQ-PFRIRHLPLFEVPVYLEIRPKRYRCKYCDDhpTTTQHLEWH
EPRSPNTKAYERWLLRILIN-STVSDVARKLGVSEDIVSGIIDRWIAAQVDWSEYADL
KVMGMDEISLKRK--HR---DFVVLITIPtTdgVDILAVLADRKQQTVANFLQSIP-I
DLRQTIERVCTDMYQGFVSAVREQLPQAKIVIDRFHVTKAYRNCADTVRKREVKRLRR
ELS-----KQEYD-----SIKGAMWPFKRKPENLKES-EQQLLER
LFA--YSPQLKQAYNLREKLTQIFEGRYTKHGAKcAIRAWCKQVLKSDiKEFDCFLTT
INNWMDEMTNYFLEG-WTSGFVEGFNNRVKVLKRRCYGIFDIERLRFQRIISLDLNGYQT
LVVHQRS"
/note="ISL3 e-value= 4.5e-44 complete sequence hit
coverage= 100%, between model(451 aa) positions 1; 451
length is 413aa with 44 gaps, 0 stops, absolute frame=
Minus2"

CDS complement(5510839..5509761)
/colour="255 0 0"
/evidence=predicted
/translation="RIRHLPLFEVPVYLEIRPKRYRCKYCDDhpTTTQHLEWHEPRSP
NTKAYERWLLRILIN-STVSDVARKLGVSEDIVSGIIDRWIAAQVDWSEYADLKVMGM
DEISLKRK--HR---DFVVLITIPtTdgVDILAVLADRKQQTVANFLQSIP-IDLRQT
IERVCTDMYQGFVSAVREQLPQAKIVIDRFHVTKAYRNCADTVRKREVKRLRRELS--
-----KQEYD-----SIKGAMWPFKRKPENLKES-EQQLLERLFA--
YSPQLKQAYNLREKLTQIFEGRYTKHGAKcAIRAWCKQVLKSDiKEFDCFLTTINNWM
DEMTNYFLEG-WTSGFVEGFNNRVKVLKRRCYGIFDIERLRFQRIISLDLNGYQTLVVHQ
RS"
/note="ISL3 e-value= 2.6e-50 fragment hit coverage=
86.03%, between model(451 aa) positions 64; 451 length
is 360aa with 34 gaps, 0 stops, absolute frame= Minus2"

CDS complement(5509729..5509467)
/colour="255 0 0"
/evidence=predicted

/translation="LFYFLMQCPLCGHPK-THKHGKTSKGSQRYRCPHCQQTFS-Etf
 DTLCYRRQISPETIQTILQAHVEGSSLRGLSRITGVAYNTCVSVVR"
 /note="IS1_ORF1 e-value= 1.7e-15 fragment hit coverage=
 36.40%, between model(239 aa) positions 1; 87 length is
 88aa with 2 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(5475031..5474574)
 /colour="255 0 0"
 /evidence=predicted
 /translation="MTYRKLSHSVWECKYHVVFPKYRKRRIYGRIRQNLGDIFH-EL
 ARHKESAIIEGHLMLDHVHMLLSIPPKYSVSNVVG YVKGKSAIYIARELGNSRNA-TG
 HKFWSRGYFVSTVG-RDEEVIRRYIRHQEQEEQKLEQLNLFraXPKSPLRGSNS"
 /note="IS200 e-value= 9.6e-56 complete sequence hit
 coverage= 100%, between model(154 aa) positions 1; 154
 length is 153aa with 3 gaps, 1 stops, absolute frame=
 Minus2"
 CDS complement(5475031..5474574)
 /colour="255 0 0"
 /evidence=predicted
 /translation="MTYRKLSHSVWECKYHVVFPKYRKRRIYGRIRQNLGDIFH-EL
 ARHKESAIIEGHLMLDHVHMLLSIPPKYSVSNVVG YVKGKSAIYIARELGNSRNA-TG
 HKFWSRGYFVSTVG-RDEEVIRRYIRHQEQEEQKLEQLNLFraXPKSPLRGSNS"
 /note="IS200 e-value= 5.7e-55 complete sequence hit
 coverage= 100%, between model(154 aa) positions 1; 154
 length is 153aa with 3 gaps, 1 stops, absolute frame=
 Minus2"
 CDS complement(5475031..5474577)
 /colour="255 0 0"
 /evidence=predicted
 /translation="MTYRKLSHSVWECKYHVVFPKYRKRRIYGR-IRQNLGDIFHEL
 ARHKESAIIEGHLMLDHVHMLLSIPPKYSVSNVVG YVKGKSAIYIARELGNSRNA-TG
 HKFWSRGYFVSTVG-RDEEVIRRYIRHQEQEEQKLEQLNLFraXPKSPLRGSN"
 /note="IS200_IS605 e-value= 8.6e-58 complete sequence hit
 coverage= 100%, between model(153 aa) positions 1; 153
 length is 152aa with 3 gaps, 1 stops, absolute frame=
 Minus2"
 CDS complement(5475031..5474577)
 /colour="255 0 0"
 /evidence=predicted
 /translation="MTYRKLSHSVWECKYHVVFPKYRKRRIYGR-IRQNLGDIFHEL
 ARHKESAIIEGHLMLDHVHMLLSIPPKYSVSNVVG YVKGKSAIYIARELGNSRNA-TG
 HKFWSRGYFVSTVG-RDEEVIRRYIRHQEQEEQKLEQLNLFraXPKSPLRGSN"
 /note="IS200_IS605 e-value= 2.2e-58 complete sequence hit
 coverage= 100%, between model(153 aa) positions 1; 153
 length is 152aa with 3 gaps, 1 stops, absolute frame=
 Minus2"
 CDS complement(5475031..5474577)
 /colour="255 0 0"
 /evidence=predicted
 /translation="-MTYRKLSHSVWECKYHVVFPKYRKRRIYGRIRQNLGDIFHEL
 ARHKESAIIEGHLMLDHVHMLLSIPPKYSVSNVVG YVKGKSAIYIARELGNSRN-ATG
 HKFWSRGYFVSTVGRDEEVIRRYIRHQEQEEQKLEQLNLFraXPKSPLRGSN"
 /note="IS605 e-value= 1e-51 complete sequence hit
 coverage= 100%, between model(152 aa) positions 1; 152
 length is 152aa with 2 gaps, 1 stops, absolute frame=
 Minus2"
 CDS complement(5475031..5474577)
 /colour="255 0 0"
 /evidence=predicted
 /translation="-MTYRKLSHSVWECKYHVVFPKYRKRRIYGRIRQNLGDIFHEL
 ARHKESAIIEGHLMLDHVHMLLSIPPKYSVSNVVG YVKGKSAIYIARELGNSRN-ATG

HKFWSRGYFVSTVGRDEEVIRRYIRHQEQEEQKLEQLNLfrAXPKSPLRGSN"
 /note="IS605 e-value= 5.5e-52 complete sequence hit
 coverage= 100%, between model(152 aa) positions 1; 152
 length is 152aa with 2 gaps, 1 stops, absolute frame=
 Minus2"

CDS complement(5354932..5354196)
 /colour="255 0 0"
 /evidence=predicted
 /translation="-----TGVYKRTFkpMLHAWHTYHLSRSN--AGRPPKLCRCQDL
 LVALQYWREYR TYFH IAGDWEVSESTVCRIVHQVETALMNSGLFRLPGQKSL LQGFER
 PDVVVMDVTETPIERPQTRQKAYYS GKRDIPS NARLSLTATLXRLSALT-----
 --LVQVVGMI FrsprfqvSISIQIPRVCKIADIKGLQ-----PIMP-TAMFLSRSHNT
 VNXLP CSESITVLXVRNEWALNTLIAAXRFSEFCRSAIAIVVVATRCGVTX"
 /note="IS5_ISL2 e-value= 9.6e-21 complete sequence hit
 coverage= 100%, between model(260 aa) positions 1; 260
 length is 246aa with 23 gaps, 5 stops, absolute frame=
 Minus2"

CDS complement(5354872..5354562)
 /colour="255 0 0"
 /evidence=predicted
 /translation="SRSNAGRPPKLCRCQDLLVALQYWREYR TYFH IAGDWEVSESTV
 CRIVHQVETALMNSGLFRLPGQKSL LQGFERPDVVVMDVTETPIERPQTRQKAYYS GK
 KR"
 /note="IS5_ISL2 e-value= 9.3e-44 fragment hit coverage=
 40%, between model(260 aa) positions 26; 129 length is
 104aa with 0 gaps, 0 stops, absolute frame= Minus2"

CDS complement(5338738..5338023)
 /colour="255 0 0"
 /evidence=predicted
 /translation="YLSPES-LQCRASSKVVMXSTV GSPS-----ILARISDL
 FPHCWRLGSLXINCLPYCpGRDRSDELRTLSL TRSEISATR-----VRATGCR
 CDGCDXNAHXTSPDKTKSVLF----RKKKRHTFKCQIIANRNTLEIICLN VGPGRRH
 FQIFKSGIHIHPDTE SLQDSGYQGI AAYHANSYVPLKKPQH GELTSLQREYNRALSQ
 ERMGIEHINRSLKIFRILSERYRNR RRRYALRCNLIAAIYNYEL"
 /note="IS5_ISL2 e-value= 6.9e-39 complete sequence hit
 coverage= 100%, between model(260 aa) positions 1; 260
 length is 239aa with 23 gaps, 4 stops, absolute frame=
 Minus2"

CDS complement(5338423..5338023)
 /colour="255 0 0"
 /evidence=predicted
 /translation="KKKRHTFKCQIIANRNTLEIICLN VGPGRRHDFQIFKSGIHIH
 PDTE SLQDSGYQGI AAYHANSYVPLKKPQH GELTSLQREYNRALSQERMGIEHINRSL
 KIFRILSERYRNR RRRYALRCNLIAAIYNYEL"
 /note="IS5_ISL2 e-value= 6.5e-62 fragment hit coverage=
 51.54%, between model(260 aa) positions 127; 260 length
 is 134aa with 0 gaps, 0 stops, absolute frame= Minus2"

CDS complement(4930255..4929975)
 /colour="255 0 0"
 /evidence=predicted
 /translation="SMCEPYCQSEK-ILKRGFDSLqdgTLVQRYQCKDCNRRFN-ERT
 GTPMARLRtasSVVSYAIKARTEGMGVR SAGRTFGKSHTTIMRWEKRLADQA"
 /note="IS1_ORF1 e-value= 3.2e-11 fragment hit coverage=
 37.24%, between model(239 aa) positions 5; 93 length is
 94aa with 2 gaps, 0 stops, absolute frame= Minus2"

CDS complement(4612015..4611591)
 /colour="255 0 0"
 /evidence=predicted
 /translation="GRQRFNVLGALNAVTKEvTSITNHTYINSHSMCLLLAKLALLDP
 VI--PISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFV RKEC

LYSKYYSDFHSFKGAIQQCIDQCNTTEHKAKLTSLLSLKFSQK"
 /note="IS630 e-value= 6.2e-18 fragment hit coverage=
 38.56%, between model(376 aa) positions 232; 376 length
 is 142aa with 4 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(4461124..4460748)
 /colour="255 0 0"
 /evidence=predicted
 /translation="EHRKSEDFALCMQYLVDGLFPQADKLHVLDNLNTHspaalyKT
 FNPDEALRILK-RIQFHYPKHGSWLNMIEFEFSALSROCLNRRIP-DIEQLRYEVTA
 WEKRRNHDKATVNWLFVDDARTKLS"
 /note="IS630 e-value= 2.3e-07 fragment hit coverage=
 32.45%, between model(376 aa) positions 255; 376 length
 is 126aa with 2 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(4320520..4320258)
 /colour="255 0 0"
 /evidence=predicted
 /translation="LFYFLMQCPLCGHPK-THKHGKTSKGSQRYRCPHCQQTFS-Etf
 DTLCYRRQiSPETIQITILQAHVEGSSLRGLSRITGVAYNTCVSVVR"
 /note="IS1_ORF1 e-value= 1.7e-15 fragment hit coverage=
 36.40%, between model(239 aa) positions 1; 87 length is
 88aa with 2 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(4297825..4296789)
 /colour="255 0 0"
 /evidence=predicted
 /translation="PMIKIDFTAEEIQQLNYERYHHPHPRVQRRMEVLYLKSQGLSHT
 QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQGPSLLNAHS-DSVRAYFEQH
 PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRYRKVGYPGKSSLP
 -EKIEEQEFRHTRLEPLleeAQRQERLVFVDAAHFVHRAYLGF-VWCITRI-----
 -----FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL
 DPV-IPISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVVRKE
 CLYSKYADFPAPFKGAIQQCIDQCNGECHKAKLTLLSLKFSQK"
 /note="IS630 e-value= 6.7e-25 complete sequence hit
 coverage= 100%, between model(376 aa) positions 1; 376
 length is 346aa with 33 gaps, 0 stops, absolute frame=
 Minus2"
 CDS complement(4297825..4296789)
 /colour="255 0 0"
 /evidence=predicted
 /translation="PMIKIDFTAEEIQQLNYERYHHPHPRVQRRMEVLYLKSQGLSHT
 QICQLCQISRPTLAKTLRQYQGG---IEGLKTLEYKQGPSLLNAHS-DSVRAYFEQH
 PP-----RTSAEAQAVIEQLTGIKRSPTQIKAFKLRIGCRYRKVGYPGKSSLP
 -EKIEEQEFRHTRLEPLleeAQRQERLVFVDAAHFVHRAYLGF-VWCITRI-----
 -----FIPSPS-GRQRFNVLGALDAITKDLVSVTNHTYINSHSMCLLLAKLALL
 DPV-IPISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVVRKE
 CLYSKYADFPAPFKGAIQQCIDQCNGECHKAKLTLLSLKFSQK"
 /note="IS630 e-value= 4.9e-24 complete sequence hit
 coverage= 100%, between model(376 aa) positions 1; 376
 length is 346aa with 33 gaps, 0 stops, absolute frame=
 Minus2"
 CDS complement(4297765..4297608)
 /colour="255 0 0"
 /evidence=predicted
 /translation="HHPHPRVQRRMEVLYLKSQGLSHTQICQLCQISRPTLAKTLRQY
 QGGIEGLK"
 /note="IS481 e-value= 3.7e-09 fragment hit coverage=
 15.10%, between model(351 aa) positions 1; 53 length is
 53aa with 0 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(4135960..4135503)
 /colour="255 0 0"
 /evidence=predicted

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/translation="MTYRKLSHVSWECKYHVVFPKYRKRRIYGRIRQNLGDIFH-EL
ARHKESAIEEGHMLLDHVMHLLSIPPKYSVSNVVG YVKGKSAIYIARELGNSRNA-TG
HKFWSRGYFVSTVG-RDEEVIRRYIRHQEQEEQKLEQLNLFraXPKSPLRGSNS"
/note="IS200 e-value= 9.6e-56 complete sequence hit
coverage= 100%, between model( 154 aa) positions 1; 154
length is 153aa with 3 gaps, 1 stops, absolute frame=
Minus2"
CDS complement(4135960..4135503)
/colour="255 0 0"
/evidence=predicted
/translation="MTYRKLSHVSWECKYHVVFPKYRKRRIYGRIRQNLGDIFH-EL
ARHKESAIEEGHMLLDHVMHLLSIPPKYSVSNVVG YVKGKSAIYIARELGNSRNA-TG
HKFWSRGYFVSTVG-RDEEVIRRYIRHQEQEEQKLEQLNLFraXPKSPLRGSNS"
/note="IS200 e-value= 5.7e-55 complete sequence hit
coverage= 100%, between model( 154 aa) positions 1; 154
length is 153aa with 3 gaps, 1 stops, absolute frame=
Minus2"
CDS complement(4135960..4135506)
/colour="255 0 0"
/evidence=predicted
/translation="MTYRKLSHVSWECKYHVVFPKYRKRRIYGR-IRQNLGDIFHEL
ARHKESAIEEGHMLLDHVMHLLSIPPKYSVSNVVG YVKGKSAIYIARELGNSRNA-TG
HKFWSRGYFVSTVG-RDEEVIRRYIRHQEQEEQKLEQLNLFraXPKSPLRGSN"
/note="IS200_IS605 e-value= 8.6e-58 complete sequence hit
coverage= 100%, between model( 153 aa) positions 1; 153
length is 152aa with 3 gaps, 1 stops, absolute frame=
Minus2"
CDS complement(4135960..4135506)
/colour="255 0 0"
/evidence=predicted
/translation="MTYRKLSHVSWECKYHVVFPKYRKRRIYGR-IRQNLGDIFHEL
ARHKESAIEEGHMLLDHVMHLLSIPPKYSVSNVVG YVKGKSAIYIARELGNSRNA-TG
HKFWSRGYFVSTVG-RDEEVIRRYIRHQEQEEQKLEQLNLFraXPKSPLRGSN"
/note="IS200_IS605 e-value= 2.2e-58 complete sequence hit
coverage= 100%, between model( 153 aa) positions 1; 153
length is 152aa with 3 gaps, 1 stops, absolute frame=
Minus2"
CDS complement(4135960..4135506)
/colour="255 0 0"
/evidence=predicted
/translation="-MTYRKLSHVSWECKYHVVFPKYRKRRIYGRIRQNLGDIFHEL
ARHKESAIEEGHMLLDHVMHLLSIPPKYSVSNVVG YVKGKSAIYIARELGNSRN-ATG
HKFWSRGYFVSTVGRDEEVIRRYIRHQEQEEQKLEQLNLfrAXPKSPLRGSN"
/note="IS605 e-value= 1e-51 complete sequence hit
coverage= 100%, between model( 152 aa) positions 1; 152
length is 152aa with 2 gaps, 1 stops, absolute frame=
Minus2"
CDS complement(4135960..4135506)
/colour="255 0 0"
/evidence=predicted
/translation="-MTYRKLSHVSWECKYHVVFPKYRKRRIYGRIRQNLGDIFHEL
ARHKESAIEEGHMLLDHVMHLLSIPPKYSVSNVVG YVKGKSAIYIARELGNSRN-ATG
HKFWSRGYFVSTVGRDEEVIRRYIRHQEQEEQKLEQLNLfrAXPKSPLRGSN"
/note="IS605 e-value= 5.5e-52 complete sequence hit
coverage= 100%, between model( 152 aa) positions 1; 152
length is 152aa with 2 gaps, 1 stops, absolute frame=
Minus2"
CDS complement(3914230..3913173)
/colour="255 0 0"
/evidence=predicted

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/translation="ACSRCRHTFT-DXSSQSEDIEGSQKPHGCMGSESSCTT-----
---WRISGASSQH---TDGDSSALE---RMGXVKSPSRGLAVSDPgDLAGKVRVRQ-L
QQDYSIRQICQVLNYPQRSQVYYHARGQP-----DESELKAAIAGVAGAYP-TYGYRRI
TAQLQ---RQGYCVNHKRVARLMRQIGIMAKTKVK-RKRTTNSEHSfprYGNRVLNLS
--IDHPEQVWVADITYIRLQ-QEFVYLAVVMDVFTRAIRGWHLRSRHIDQQLTLRALNK
ALERAT---PEIHHS-----DQGVQYAAAAYMQLLQHQVQISMAEVGQAWQNGYAER
LMRTIKEEEVD--LSDYRNFTEAYEHIEQFLEDvYMHKRIHSSLGYLTPCEYEQQWRQ
Q"
/note="IS3_IS150_ORF2    e-value= 5e-28 complete sequence
hit coverage= 100%, between model( 389 aa) positions 1;
389 length is 353aa with 40 gaps, 2 stops, absolute
frame= Minus2"
CDS    complement(3914146..3913149)
/colour="255 0 0"
/evidence=predicted
/translation="MGSESSCTTWRISGASSQHTDGDS--SALERMGXVK-----SPS
RGLAVSDPGDLAGKVRVRQLQO-----DYSIRQICQVLNYPQRSQVYYHARGQ
PDESELKAAIAGVAGAYPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKV-K
RKRTtnsehsfprYGNRVLNLSIDHPEQVWVADITYIRLQ--QEFVYLAVVmDVFTRA
IRGWHLRSRHIDQQLTLRALNKALE-RATPEIHSDQGVQYAAAAYMQLLQHQVQISM
AEVGQAWQNGYAERLMRTIKEEEVDLSDYRNFTEAYEHIEQFLEDvYMHKRIHSSLGY
LTPCEYEQQWRQONNHYCMNK"
/note="IS3_IS407_ORF2    e-value= 1.2e-11 complete sequence
hit coverage= 100%, between model( 344 aa) positions 1;
344 length is 333aa with 22 gaps, 1 stops, absolute
frame= Minus2"
CDS    complement(3914050..3913176)
/colour="255 0 0"
/evidence=predicted
/translation="VKSPSRGLAVSDPgDLAGKVR----VRQLQQDYSIRQICQVLNYP
QRSQVYYHARGQPDESELKAAIAGV-AGAYPTYGYRRITAQLQRQGYCVNHKRVARLM
RQIGIMAKTKVK----RKRTTNSEHSF-PRYGNRvLNLSIDHPEQVWVADITYIRL--
QQEFVYLAVVMDVFTRAIRGWHLRSRHIDQQLTLRALNKALER----ATPEIHSDQGV
QYAAAAYMQLLQHQVQISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYRNFTEAYE
EHIEQFLEDVYMHKRIHSSLGYLTPCEYEQQWRQ"
/note="IS3_IS150_ORF1    e-value= 2.2e-46 complete sequence
hit coverage= 100%, between model( 306 aa) positions 1;
306 length is 292aa with 18 gaps, 0 stops, absolute
frame= Minus2"
CDS    complement(3914026..3913140)
/colour="255 0 0"
/evidence=predicted
/translation="AVSDPGDLAGKVRVRQLQQDYSIRQICQVLNYPQRSQVYYHARGQ
PD-----ESELKAAIAGVAGAYPTYGYRRITAQLQRQGYC---
VNHKRVARLMRQIGIMAKTKVKRKR-TTNSEHSFPRYGNRVLNLSIDHPEQVWVADIT
YI-----RLQO-----EFVYLAVVMDVFTRAIRGWHLRSRH----IDQ
QLTLRALNKALERAT-PEIHSDQGVQYAAA----AYMQLLQHQVQISMAEVGQAWQ
NGYAERLMRTIKEEEVDLSD---YRNFTEAYEHIEQFLEDvYMHKRIHSSLGYLTPCE
YEQQWRQONNHYCMNKEDS"
/note="IS481 e-value= 2.7e-07 complete sequence hit
coverage= 100%, between model( 351 aa) positions 1; 351
length is 296aa with 57 gaps, 0 stops, absolute frame=
Minus2"
CDS    complement(3914008..3913140)
/colour="255 0 0"
/evidence=predicted
/translation="----DLAGKVRVRQLQQDYSIRQICQVLNYP---RSQVYYHARG
QPDESELKA--AIAGV-----AGA---YPTYGYRRITAQLQRQGYCVNHKRVARLM
RQIGIMAKTKVKRKRRTTNSEHSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQQEFVY
LAVVMDVFTRAIRGWHLRSRHIDQQLTLRALNKALERATPE-----IHSDQGVQY

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AAAAYMQLLQHQVQVQISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYrnFTEAYEHIE
QFLEDV--YMHKRIHSSLGYLTPCEYEQQWRQONNHCMNKEDS"

/note="IS3_IS51_ORF2 e-value= 3.7e-25 complete sequence
hit coverage= 100%, between model(317 aa) positions 1;
317 length is 290aa with 30 gaps, 0 stops, absolute
frame= Minus2"

CDS complement(3914005..3913164)

/colour="255 0 0"

/evidence=predicted

/translation="-LAGKV--RVRQL-QQDYSIRQICQVLNYPRSQVYYHARG----
-----QPDESELKAAIAGVAGAYPTYGYRRITAQLQRQGY-----CVNHKRVARLM
RQIGIM--AKTKVKRK-RttsehsfprYGNRVLnlsIDHPEQVWVAD-ITYIRLQOE
FVYLAVVMDVFTRAIRGWH-----LSRHIDQQLTLRALNK---ALERATPEIHH-SD
QGVQYAAAAYMQLLQHQVQVQISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYRNFT
EAYEHIEQFLEDVYMHKRIHSSLGYLTPCEYEQQWRQONNH"

/note="IS3_IS2_ORF2 e-value= 3.7e-08 complete sequence
hit coverage= 100%, between model(302 aa) positions 1;
302 length is 281aa with 34 gaps, 0 stops, absolute
frame= Minus2"

CDS complement(3913996..3913149)

/colour="255 0 0"

/evidence=predicted

/translation="KVRVRQLQQDYSIRQICQVLNYPRSQVYYHA-----RG
QPDESELKAAIAGV-AGAYPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKV
KRKRRTTSEHSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQOEFVYLAVVMDVFTRA
IRGWHLRSRHIDQQLT-LRALNKALERATPE-----IHHSQGVQYAAAAYMQLLQ
HQVQVQISMAEVGQAWQNGYAERLMRTIKEEEVDL---S-DYRNFTTEAYEHIEQFLEDV
YMHKRIHSSLGYLTPCEYEQQWRQONNHCMNK"

/note="IS3_IS51_ORF1 e-value= 3e-51 complete sequence

hit

coverage= 100%, between model(307 aa) positions 1; 307
length is 283aa with 25 gaps, 0 stops, absolute frame=
Minus2"

CDS complement(3913996..3913149)

/colour="255 0 0"

/evidence=predicted

/translation="KVRVRQLQQDYSIRQICQVLNYPRSQVYYHA-----RG
QPDESELKAAIAGV-AGAYPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKV
KRKRRTTSEHSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQOEFVYLAVVMDVFTRA
IRGWHLRSRHIDQQLT-LRALNKALERATPE-----IHHSQGVQYAAAAYMQLLQ
HQVQVQISMAEVGQAWQNGYAERLMRTIKEEEVDL---S-DYRNFTTEAYEHIEQFLEDV
YMHKRIHSSLGYLTPCEYEQQWRQONNHCMNK"

/note="IS3_IS51_ORF1 e-value= 3.9e-53 complete sequence
hit coverage= 100%, between model(307 aa) positions 1;
307 length is 283aa with 25 gaps, 0 stops, absolute
frame= Minus2"

CDS complement(3913993..3913179)

/colour="255 0 0"

/evidence=predicted

/translation="VRVRQLQQDYSIRQICQVLNYPRSQVYYHARG--QPD-----ES
ELKAAI-AGVAGAYPTYGYRRITAQLQ-RQGYCVNHKRVARLMRQIGIMAKTKVKRKR
TTNSEHSfPRYGNRVLNLS-IDHPEQVWVADITYIRLQOEFVYLAVVMDVFTRAIRGW
HLSRHIDQQLTLRALNKALERA-TPE--IHHSQGVQYAAAAYMQLLQHQVQVQISMAE
VGQAWQNGYAERLMRTIK-EEVDL-SDYRNFTTEAYEHIEQFLEDVYMHKRIHSSLGY
LTPCEYEQQWR"

/note="IS3_IS3_ORF1 e-value= 7.6e-54 complete sequence
hit coverage= 100%, between model(286 aa) positions 1;
286 length is 272aa with 15 gaps, 0 stops, absolute
frame= Minus2"

CDS complement(3913993..3913179)

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/colour="255 0 0"
/evidence=predicted
/translation="VRVRQLQDYSIRQICQVLNYPRSQVYYHARG--QPD-----ES
ELKAAI-AGVAGAYPTYGYRRITAQLQ-RQGYCVNHKRVARLMRQIGIMAKTKVKKRKR
TTNSEHSfPRYGNRVLNLS-IDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGW
HLSRHIDQQLTLRALNKALERA-TPE--IHSDQGVQYAAAAAYMQLLQHQVQISM
VGQAWQNGYAERLMRTIK-EEEVDL-SDYRNFTEAYEHIEQFLEDVYMHKRIHSSLGY
LTPCEYEQQWR"
/note="IS3_IS3_ORF1      e-value= 2e-54 complete sequence

hit
coverage= 100%, between model( 286 aa) positions 1; 286
length is 272aa with 15 gaps, 0 stops, absolute frame=
Minus2"
CDS
complement(3913981..3913167)
/colour="255 0 0"
/evidence=predicted
/translation="QLQDYSIRQICQVLNYPRSQVYYHARGQPDE-----SEL
KAAIAGVAGayPTYGYRRITAQLRQGYCVNHKRVARLMRQIGIMAKTKVKKRRTTNS
EHSFPRY---GNRVLNLSIDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGWHL
SRHIDQQLTLRALNKALER----ATPE---IHSDQGVQYAAAAAYMQLLQHQVQISM
AEVGQAWQNGYAERLMRTIKEEEEVDLSDYRNFTEAYEHIEQFLEDVYMHKRIHSSLGY
LTPCEYEQQWRQNN"
/note="IS3_IS3_ORF2      e-value= 3.3e-65 complete sequence
hit coverage= 100%, between model( 288 aa) positions 1;
288 length is 272aa with 19 gaps, 0 stops, absolute
frame= Minus2"
CDS
complement(3913981..3913167)
/colour="255 0 0"
/evidence=predicted
/translation="QLQDYSIRQICQVLNYPRSQVYYHARGQPDE-----SEL
KAAIAGVAGayPTYGYRRITAQLRQGYCVNHKRVARLMRQIGIMAKTKVKKRRTTNS
EHSFPRY---GNRVLNLSIDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGWHL
SRHIDQQLTLRALNKALER----ATPE---IHSDQGVQYAAAAAYMQLLQHQVQISM
AEVGQAWQNGYAERLMRTIKEEEEVDLSDYRNFTEAYEHIEQFLEDVYMHKRIHSSLGY
LTPCEYEQQWRQNN"
/note="IS3_IS3_ORF2      e-value= 1.2e-64 complete sequence
hit coverage= 100%, between model( 288 aa) positions 1;
288 length is 272aa with 19 gaps, 0 stops, absolute
frame= Minus2"
CDS
complement(3913978..3913173)
/colour="255 0 0"
/evidence=predicted
/translation="LQDYSIRQICQVLNYPRSQVYYHARGQP-----DESELKAAIA
GVAGAYP-TYGYRRITAQLQ---RQGYCVNHKRVARLMRQIGIMAKTKVK-RKRTTNS
EHSfPRYGNRVLNLS--IDHPEQVWVADITYIRLQ-QEFVYLAVVMDVFTRAIRGWHL
SRHIDQQLTLRALNKALERAT---PEIHHS-----DQGVQYAAAAAYMQLLQHQVQIS
MAEVGQAWQNGYAERLMRTIKEEEEVD--LSDYRNFTEAYEHIEQFLEDVYMHKRIHSS
LGYLTPCEYEQQWRQQ"
/note="IS3_IS150_ORF2    e-value= 2.2e-46 fragment hit
coverage= 74.29%, between model( 389 aa) positions 101;
389 length is 269aa with 23 gaps, 0 stops, absolute
frame= Minus2"
CDS
complement(3913963..3913176)
/colour="255 0 0"
/evidence=predicted
/translation="SIRQICQVLNYPRSQVYYHARGQPDESELKAAIAGV-AGAYPTY
GYRRITAQLRQGYCVNHKRVARLMRQIGIMAKTKVK----RKRTTNSSEHSF-PRYGN
RvLNLSIDHPEQVWVADITYIRL--QQEFVYLAVVMDVFTRAIRGWHLRSHIDQQLTL
RALNKALER----ATPEIHSDQGVQYAAAAAYMQLLQHQVQISM
AEVGQAWQNGYAE
RLMRTIKEEEEVDLSDYRNFT--EAYEHIEQFLEDVYMHKRIHSSLGYLTPCEYEQQWR

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Q"
 /note="IS3_IS150_ORF1 e-value= 1.4e-49 fragment hit coverage= 89.87%, between model(306 aa) positions 32; 306 length is 263aa with 14 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(3913963..3913764)
 /colour="255 0 0"
 /evidence=predicted
 /translation="SIRQICQVLNYPQRSQVYYHARGQPDESELKAAIAGVAGAYPTYG YRRITAQLQRQGYCVNHKRVARL"
 /note="IS3_IS407_ORF2 e-value= 2e-15 fragment hit coverage= 19.48%, between model(344 aa) positions 80; 146 length is 67aa with 0 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(3913912..3913755)
 /colour="255 0 0"
 /evidence=predicted
 /translation="YHARGQPDESELKAAIAGVAGAYPTYGYRRITAQLQRQGY---- -CVNHKRVARLMRQ"
 /note="IS3_IS2_ORF2 e-value= 9.1e-09 fragment hit coverage= 18.87%, between model(302 aa) positions 48; 104 length is 53aa with 5 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(3913846..3913164)
 /colour="255 0 0"
 /evidence=predicted
 /translation="YPTYGYRRITAQLQRQGYCVNHKRVARLMRQIGIMAKTKVKRKR TTNSEHSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQOEFVYLAVVMDVFTRAIRGW HLSRHIDQQLTLRALNKALERATPE-----IHHSDOGVOYAAAAYMQLLOQHVOVQ ISMAEVGQAWQNGYAERLMRTIKEEVDLSDYrnFTEAYEHIEQFLEDV--YMHKRIH SSLGYLTPCEYEQQWRQONNH"
 /note="IS3_IS51_ORF2 e-value= 1.9e-38 fragment hit coverage= 74.76%, between model(317 aa) positions 73; 309 length is 228aa with 11 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(3759763..3758637)
 /colour="255 0 0"
 /evidence=predicted
 /translation="FKHLHLGMI sDIKRKSLPAIARAVGLENHQSLHHFLSESPWVAS hLSDkRLDIILKILDGRRLILLID-----ETGDCKKGKSTDYVKR QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP AEQAVFAEPWQSFERTFSNGT-----TETRYR QEIIYGQRHHQKRYWLLTTDPQTLPENSTS-----YVMAA APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TLGWADFRMTHYEQIEKWWEIVMSA FLMVSLFADVFND S-----CPVAHQHFAQHPWWDNQNG WKNLLNNVR--LIIQPLIS----WNLLKRWLEVFPSRALKKGF"
 /note="IS4 e-value= 9.9e-07 complete sequence hit coverage= 100%, between model(486 aa) positions 1; 486 length is 376aa with 117 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(3759763..3759069)
 /colour="255 0 0"
 /evidence=predicted
 /translation="FKHLHLGMI sDIKRKSLPAIARAVGLENHQSLHHFLSESPWVAS hLSDkRLDIILKILDGRRLILLID-----ETGDCKKGKSTDYVKR QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY"
 /note="IS4 e-value= 4.7e-14 fragment hit coverage=

51.23%, between model(486 aa) positions 1; 249 length is 232aa with 27 gaps, 0 stops, absolute frame= Minus2"
 complement(3688744..3687618)
 /colour="255 0 0"
 /evidence=predicted
 /translation="FKHLHLGMISDIKRKSLPAIARAVGLENHQSLHHLFSESPPWVAS
 hLSDkRLDIILKILDGRRLLILLID-----ETGDCKKKGKSTDYVVKR
 QYIGNVGGKENGIVAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
 PQIAAGMIRQLQGMGFCELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
 AEQAVFAEPWQSFERTFSNGT-----TETRYR
 QEIIYGQRHHQKRYWLLTTPQTLPENSTS-----YVMAA
 APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TLGWADFRMTHYEQIEKWWEIVMSA
 FLMVSLFADVFNDS-----CPVAHQHFAQHPwWDNONG
 WKNLLNNVR--LIIQPLIS---WNLLKRWLEVFPSRALKKGf"
 /note="IS4 e-value= 9.9e-07 complete sequence hit
 coverage= 100%, between model(486 aa) positions 1; 486
 length is 376aa with 117 gaps, 0 stops, absolute frame=
 Minus2"

CDS
 complement(3688744..3688050)
 /colour="255 0 0"
 /evidence=predicted
 /translation="FKHLHLGMISDIKRKSLPAIARAVGLENHQSLHHLFSESPPWVAS
 hLSDkRLDIILKILDGRRLLILLID-----ETGDCKKKGKSTDYVVKR
 QYIGNVGGKENGIVAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
 PQIAAGMIRQLQGMGFCELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
 AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY"
 /note="IS4 e-value= 4.7e-14 fragment hit coverage=
 51.23%, between model(486 aa) positions 1; 249 length is
 232aa with 27 gaps, 0 stops, absolute frame= Minus2"

CDS
 complement(3511168..3510495)
 /colour="255 0 0"
 /evidence=predicted
 /translation="SXGICMKCPECQGQh-IHKNghRR-GKQNHICVTCGRQFL--ST
 YSKRGYSDWTKRLCLRMVNGMGLKGIERVIGVAHTTVIHWVQVGVllPNAYDPDDI
 PQ-----VGELDELETFVGGKRNKVWIW-TVVDHFHFG--ILGWVVDHSA
 ETRPLWqaIVCWQCFWVSDGNPVYpgFIPEgDQIVSKTYMTRVEGENTRLRHYLAR
 LHRKTLcYSKsVDMLKHSIRLL---IHyl"
 /note="IS1_ORF1 e-value= 3.5e-42 complete sequence hit
 coverage= 100%, between model(239 aa) positions 1; 239
 length is 225aa with 22 gaps, 1 stops, absolute frame=
 Minus2"

CDS
 complement(3511168..3510495)
 /colour="255 0 0"
 /evidence=predicted
 /translation="SXGICMKCPECQGQh-IHKNghRR-GKQNHICVTCGRQFL--ST
 YSKRGYSDWTKRLCLRMVNGMGLKGIERVIGVAHTTVIHWVQVGVllPNAYDPDDI
 PQ-----VGELDELETFVGGKRNKVWIW-TVVDHFHFG--ILGWVVDHSA
 ETRPLWqaIVCWQCFWVSDGNPVYpgFIPEgDQIVSKTYMTRVEGENTRLRHYLAR
 LHRKTLcYSKsVDMLKHSIRLL---IHyl"
 /note="IS1_ORF1 e-value= 1.9e-41 complete sequence hit
 coverage= 100%, between model(239 aa) positions 1; 239
 length is 225aa with 22 gaps, 1 stops, absolute frame=
 Minus2"

CDS
 complement(3511168..3510489)
 /colour="255 0 0"
 /evidence=predicted
 /translation="SXGICMKCPECQGQh-IHKNghRR-GKQNHICVTCGR----QFL
 STYSKRGysdwTKRLCLRMVNGMGLKGIERVIGVAHTTVIHWVQV--GVLLPNAYD
 PDDIPQVGELDELETFVGGKRNKVWIWTVVDHFHFGILGWVVDHSAETFRPLWQaIV
 CWQ-CFFWVSDGNPVYpgFIPEg----DQIVSKTYMTRVEGENTRLRHYLARLHRKTL

CYSKSV DMLKHSIRLLI-HYLKF"
 /note="IS1_ORF2 e-value= 3.2e-29 complete sequence hit
 coverage= 100%, between model(237 aa) positions 1; 237
 length is 227aa with 14 gaps, 1 stops, absolute frame=
 Minus2"
 CDS complement(3510889..3510489)
 /colour="255 0 0"
 /evidence=predicted
 /translation="DPDDIPQVGELDELETFVGKKRNKVIWTVVDHFHFGILGWVVG
 DHS AETFRPLWQAIVCWQ-CFFWVSDGNPVYPGFPIEG----DQIVSKTYMTRVEGEN
 TRLRHYLARLHRKTL CYSKSV DMLKHSIRLLI-HYLKF"
 /note="IS1_ORF2 e-value= 8.3e-32 fragment hit coverage=
 59.07%, between model(237 aa) positions 98; 237 length
 is 134aa with 6 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(3407053..3406647)
 /colour="255 0 0"
 /evidence=predicted
 /translation="MLLV RPISTESLRL LHRIYHSSRH HQVRQRAHCLILFAQGWP
 PY TLASLFSVSPKTVYNWLKAWNNRG---FAGLYNH PGRGRKPMFNPDQQQQIYEW
 T-QA SPIQ-----LNQVLAQIEQQWSVRVSKATV KRV LKQMDMSWHR"
 /note="IS630 e-value= 8.7e-15 fragment hit coverage=
 39.63%, between model(376 aa) positions 1; 149 length is
 136aa with 13 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(3406993..3406656)
 /colour="255 0 0"
 /evidence=predicted
 /translation="SSRH HQVRQRAHCLILFAQGWP
 PY TLASLFSVSPKTVYNWLKAW
 NNRGFAGLYNH---PGRGRKPMFNPDQQQQIYEW
 TQASPIQLNQVLAQIEQQWSVR--
 -VSKATV KRV LKQMDMS"
 /note="IS481 e-value= 3.5e-09 fragment hit coverage=
 33.62%, between model(351 aa) positions 1; 118 length is
 113aa with 6 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(2632693..2631567)
 /colour="255 0 0"
 /evidence=predicted
 /translation="FKHLHLGMI sDIKRKSLPAIARAVGLE
 NHQSLH HFLSESPWVAS
 hLSDkRLDIILKILDGRR LILLID-----ETGDCKK
 GKSTDYV KR
 QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR
 -----ErLKEEDEYLSK
 PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFV
 NVLEELKLPYILAIRSNHAVWLP
 AEQAVFAEPWQSFERTFSNGT-----TETRYR
 QEIIYGQRHHQKRYWLLTDPQTLPENSTS-----YV
 MAA
 APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TL
 GWADFRMTHYEQIEKWWIVMSA
 FLMVSLFADVFNDS-----CPVAHQHFAQHPw
 WDNQNG
 WKNLLNNVR--LIIQPLIS---WNLKRWLEVFPSR
 ALKKG F"
 /note="IS4 e-value= 9.9e-07 complete sequence hit
 coverage= 100%, between model(486 aa) positions 1; 486
 length is 376aa with 117 gaps, 0 stops, absolute frame=
 Minus2"
 CDS complement(2632693..2631999)
 /colour="255 0 0"
 /evidence=predicted
 /translation="FKHLHLGMI sDIKRKSLPAIARAVGLE
 NHQSLH HFLSESPWVAS
 hLSDkRLDIILKILDGRR LILLID-----ETGDCKK
 GKSTDYV KR
 QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR
 -----ErLKEEDEYLSK
 PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFV
 NVLEELKLPYILAIRSNHAVWLP
 AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqr
 hhQKRY"
 /note="IS4 e-value= 4.7e-14 fragment hit coverage=
 51.23%, between model(486 aa) positions 1; 249 length is
 232aa with 27 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(2586391..2586240)

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/colour="255 0 0"
/evidence=predicted
/translation="QLCLILDNNPTHKG-KMRSQLAIHLEqmgltqsiQVEFLYLPSY
SPKLNLVE"
/note="IS630 e-value= 4.3e-06 fragment hit coverage=
11.70%, between model( 376 aa) positions 279; 322 length
is 51aa with 1 gaps, 0 stops, absolute frame= Minus2"
CDS complement(2459947..2458710)
/colour="255 0 0"
/evidence=predicted
/translation="IRIPLNLPDI--RVLELSKTERGDWL-----IKIESTLQGTTC
HQCGREITDL-HCHDQ-PFRIRHLPLFEVPVYLEIRPKRYRCKYCDDhpTTTQHLEWH
EPRSPNTKAYERWLLRILIN-STVSDVARKLGVSEDIVSGIIDRWIAAQVDWSEYADL
KVMGMDEISLKRG--HR---DFVVLITIPTTdgVDILAVLADRKQOTVANFLOSIP-I
DLRQTIERVCTDMYQGFVSAVREQLPQAKIVIDRFHVTKAYRNCADTVRKREVKRLRR
ELS-----KQEYD-----SIKGAMWPFKRKPENLKES-EQOLLERLFA--
YSPQLKQAYNLREKLTQIFEGRYTKHGAKCAIRAWCKQVLKSDiKEFDCFLT
INNWMDEMTNYFLEG-WTSGFVEGFNNRVKVLKRRCYGIFDIERLRFQRI
SLDLNGYQTFAVTXTL"
/note="ISL3 e-value= 1.8e-43 complete sequence hit
coverage= 100%, between model( 451 aa) positions 1; 451
length is 413aa with 44 gaps, 1 stops, absolute frame=
Minus2"
CDS complement(2459788..2458710)
/colour="255 0 0"
/evidence=predicted
/translation="RIRHLPLFEVPVYLEIRPKRYRCKYCDDhpTTTQHLEWHEPRSP
NTKAYERWLLRILIN-STVSDVARKLGVSEDIVSGIIDRWIAAQVDWSEYADL
KVMGMDEISLKRG--HR---DFVVLITIPTTdgVDILAVLADRKQOTVANFLOSIP-IDL
RQTIERVCTDMYQGFVSAVREQLPQAKIVIDRFHVTKAYRNCADTVRKREVKRLR
RELS-----KQEYD-----SIKGAMWPFKRKPENLKES-EQOLLERLFA--
YSPQLKQAYNLREKLTQIFEGRYTKHGAKCAIRAWCKQVLKSDiKEFDCFLT
TINNWMDEMTNYFLEG-WTSGFVEGFNNRVKVLKRRCYGIFDIERLRFQRI
SLDLNGYQTFAVTXTL"
/note="ISL3 e-value= 1e-49 fragment hit coverage= 86.03%,
between model( 451 aa) positions 64; 451 length is 360aa
with 34 gaps, 1 stops, absolute frame= Minus2"
CDS complement(2413129..2412849)
/colour="255 0 0"
/evidence=predicted
/translation="PMSHLIDTLKQVPDFRSARGRTHPLWLLLLLMMVMGMLAGYQGYC
PLETFTSDYQQPLCELLGLENF-----QVPSHCTFRRVMKGLDFQSLSHQFEAWM"
/note="ISAs1 e-value= 1.2e-14 fragment hit coverage=
25.45%, between model( 389 aa) positions 1; 99 length is
94aa with 5 gaps, 0 stops, absolute frame= Minus2"
CDS complement(2413129..2412096)
/colour="255 0 0"
/evidence=predicted
/translation="PMSHLIDTLKQVPDFRSARGRTHPLWLLLLLMMVMGMLAGYQGYC
PLETFTSDYQQPLCELLGLENF-----QVPSHCTFRRVMKGLDFQSLSHQFEAWMl
skaqthspDNYAASMDGK-RIC---QGLTDENGKQRFVG---LVSIFAVEAGITL
KLEALTQEDNsEIKVVQALLETQLDGLLITMDALHAQKNTSAS-CGFGX-----
XLSYRRXAQSGPSLRPPDLL-XVSXTHGxayplHTEXRTRGTSVYPGLXACRHS
PTR-VGSHSLGALCPAMGYSSRQG----VSQH-----GLLHQFS-----
CHLTPSLAISGPRALGHXKS-----VALAEGCGLWXRXLSTRGXTSTAQLVSAX
NHCDXYSASKRLSIPQ"
/note="ISAs1 e-value= 7e-07 complete sequence hit
coverage= 100%, between model( 389 aa) positions 1; 389
length is 345aa with 59 gaps, 13 stops, absolute frame=
Minus2"

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CDS complement(2404702..2404278)
/colour="255 0 0"
/evidence=predicted
/translation="GRQRFNVLGALNAVTKEvTSITNHTYINSHSMCLLLAKLALLDP
VI--PISVILDNARYQKCQLVTDFAEIVD--IELVYLPSYSPHLNLIERLWRFVVRKEC
LYSKYYSDFHSGFKGAIQQCIDQCNTTEHKAKLTSLLSLKFQSFQK"
/note="IS630 e-value= 6.2e-18 fragment hit coverage=
38.56%, between model(376 aa) positions 232; 376 length
is 142aa with 4 gaps, 0 stops, absolute frame= Minus2"

CDS complement(2284996..2284359)
/colour="255 0 0"
/evidence=predicted
/translation="MASKTTNVkPVVVSLWKLLSKSELIHPLKAXSISYCLKRYLWQV
L-----PGS-----VMFLKAGYKSTXTVSMKQCLVLXTYHQKGR-----
---LTLOQDEMWSFVNDKSNKQWIWLALDVITREIVGVYVGARSKQGARQLWNSLPGI
YRQCAVaYTDfWDAYGCVFPKQ-RHQAVGKETGQTCYIERFNCTMRQRVSRVLVRKTL
FSKKLENHIGAIWMFVHHYNAS"
/note="IS1_ORF2 e-value= 4.6e-13 complete sequence hit
coverage= 100%, between model(237 aa) positions 1; 237
length is 213aa with 27 gaps, 3 stops, absolute frame=
Minus2"

CDS complement(2284744..2284368)
/colour="255 0 0"
/evidence=predicted
/translation="DEMWSFVNDKSNKQWIWLALDVITREIVGVYVGA----RSKQGA
RQLwNSLPGIYRQCAVaYTDfWDAYgCVFPKQRHQAVGKETgQTCYIERFNCTMRQRV
SRVLVRKTLFSKKLENHIGAIWMF---VHHY"
/note="IS1_ORF1 e-value= 4.6e-14 fragment hit coverage=
53.97%, between model(239 aa) positions 111; 239 length
is 126aa with 7 gaps, 0 stops, absolute frame= Minus2"

CDS complement(2284744..2284359)
/colour="255 0 0"
/evidence=predicted
/translation="DEMWSFVNDKSNKQWIWLALDVITREIVGVYVGARSKQGARQLW
NSLPGIYRQCAVaYTDfWDAYGCVFPKQ-RHQAVGKETGQTCYIERFNCTMRQRVSRV
LVRKTLFSKKLENHIGAIWMFVHHYNAS"
/note="IS1_ORF2 e-value= 6.2e-32 fragment hit coverage=
54.43%, between model(237 aa) positions 109; 237 length
is 129aa with 1 gaps, 0 stops, absolute frame= Minus2"

CDS complement(2088655..2088024)
/colour="255 0 0"
/evidence=predicted
/translation="TQTLDRTXRAM-----PTAYDSLTTLOWELLEPLIPAAK----
---PGGRPRTDMRSVLNAIFYLVTGQWRQLPHDFPCWSTVYSYFRRWRDDGTWVH
INEHLRMQERVSEDRHPSAAICDAQSVKVG--NPR-----
-----CHTNS-----LIEXPLXSKHPR-----YKNIPLEKPPPSGR
GYXYAQIKRSP-----VPQ-----XNQSFCLXKAFLGPAAIALP
DXVLdyETAVQSATHSQAIEP"
/note="IS5_IS1031 e-value= 3.4e-16 complete sequence hit
coverage= 100%, between model(295 aa) positions 1; 295
length is 211aa with 86 gaps, 7 stops, absolute frame=
Minus2"

CDS complement(2088613..2088297)
/colour="255 0 0"
/evidence=predicted
/translation="YDSLTTLOWELLEPLIPAAK-----PGGRPRTDMRSVLNA
IFYLVTGQWRQLPHDFPCWSTVYSYFRRWRDDGTWVHINEHLRMQERVSEDRHPS
AAICDAQSVK"
/note="IS5_IS1031 e-value= 7.2e-51 fragment hit coverage=
38.31%, between model(295 aa) positions 20; 132 length

is 106aa with 7 gaps, 0 stops, absolute frame= Minus2"

CDS complement(2088604..2088366)
/colour="255 0 0"
/evidence=predicted
/translation="DLTTLQWELLEPLIPAAKP-GGRPRT-TDMRSVLNAIFYLVVTG
CQWRQLPHDFPCWSTVYSYFRRWRDDGTWVHINEHLRM"
/note="IS5_IS427 e-value= 9.2e-19 fragment hit coverage=
27.70%, between model(296 aa) positions 125; 206 length
is 80aa with 2 gaps, 0 stops, absolute frame= Minus2"

CDS complement(2087236..2086668)
/colour="255 0 0"
/evidence=predicted
/translation="SQISIRKGLGM-----RDKY-----Q-----
-----QRATP-----IIQVTH-----IWNWY-----
-----HSI----GFDGGKMKVGRKRHVLVD
TLGLVLMVMVTAANISDQR-GAKMLFWKARRQGaslSRLVRIWADAGYQGQAFMKWVM
DRFOYVLEVIKRSNDLAGFQVVPKRWIVERTFGWLLWSRRLNKDYEVLTRTTEALAYV
AMIRLMVRRRLAQEYXNFSNSLX"
/note="IS5_IS1031 e-value= 2.9e-19 complete sequence hit
coverage= 100%, between model(295 aa) positions 1; 295
length is 190aa with 108 gaps, 2 stops, absolute frame=
Minus2"

CDS complement(2087131..2086668)
/colour="255 0 0"
/evidence=predicted
/translation="GFDGGKMKVGRKRHVLVDTLGLVLMVMVTAANISDQR-GAKMLF
WKARRQGaslSRLVRIWADAGYQGQAFMKWVMDFQYVLEVIKRSNDLAGFQVVPKRW
IVERTFGWLLWSRRLNKDYEVLTRTTEALAYVAMIRLMVRRRLAQEYXNFSNSLX"
/note="IS5_IS1031 e-value= 2.2e-60 fragment hit coverage=
51.86%, between model(295 aa) positions 143; 295 length
is 155aa with 1 gaps, 2 stops, absolute frame= Minus2"

CDS complement(1894558..1894341)
/colour="255 0 0"
/evidence=predicted
/translation="RIRFVYIPKHTSWLNQIECWFSILVRRLLIRRGNFTSKDDLQORI
LEFIEYFNHtMAKPFQWQFKGFQPRXLXLM"
/note="IS630 e-value= 4e-10 fragment hit coverage=
19.15%, between model(376 aa) positions 305; 376 length
is 73aa with 0 gaps, 1 stops, absolute frame= Minus2"

CDS complement(1894510..1894401)
/colour="255 0 0"
/evidence=predicted
/translation="IECWFSILVRRLLIR--RGNFTSKDDLQORILEFIEYFNH"
/note="IS3_IS150_ORF2 e-value= 2e-08 fragment hit
coverage= 10.03%, between model(389 aa) positions 329;
367 length is 37aa with 2 gaps, 0 stops, absolute frame=
Minus2"

CDS complement(1226248..1225905)
/colour="255 0 0"
/evidence=predicted
/translation="KYIVTLTPEERSELIQLTRRRRTLSARKMKRAQILMLADEGHKDD
TITQMLNAGISTVHRTRQKFVEGG---VEfALNERPRPGGQKKLDSKAEALLIATACS
DPPTG----CCRWTMQLLAE"
/note="IS630 e-value= 1.2e-15 fragment hit coverage=
32.18%, between model(376 aa) positions 1; 121 length is
115aa with 7 gaps, 0 stops, absolute frame= Minus2"

CDS complement(1119469..1119321)
/colour="255 0 0"
/evidence=predicted
/translation="LMNSGLFRLPGKKHLIQGFERPDVVVMDVTETPIERPQKGQKAY

YAGKKR"
 /note="IS5_ISL2 e-value= 1.8e-17 fragment hit coverage= 19.23%, between model(260 aa) positions 80; 129 length is 50aa with 0 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(669352..668715)
 /colour="255 0 0"
 /evidence=predicted
 /translation="MASKTTNVkPVVVSLWKLLSKSELIHPLKAXSISYCLKRYLWQV L-----PGS-----VMFLKAGYKSTXTVsMKQCLVLXTYHQKGR-----
 ---LTLQCDEMWSFVNDKSNKQWIWLALDVITREIVGVYVGARSKQGARQLWNSLPGI YRQCAVaYTDfWDAYGCVFPKQ-RHQAVGKETGQTCYIERFNCTMRQRVSRRLVVRKTL SFSKKLENHIGAIWMFVHHYNAS"
 /note="IS1_ORF2 e-value= 4.6e-13 complete sequence hit coverage= 100%, between model(237 aa) positions 1; 237 length is 213aa with 27 gaps, 3 stops, absolute frame= Minus2"
 CDS complement(669100..668724)
 /colour="255 0 0"
 /evidence=predicted
 /translation="DEMWSFVNDKSNKQWIWLALDVITREIVGVYVGA----RSKQGA RQLwNSLPGIYRQCAVaYTDfWDAYgCVFPKQRHQAVGKETgQTCYIERFNCTMRQRV SRRLVVRKTL SFSKKLENHIGAIWMF---VHHY"
 /note="IS1_ORF1 e-value= 4.6e-14 fragment hit coverage= 53.97%, between model(239 aa) positions 111; 239 length is 126aa with 7 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(669100..668715)
 /colour="255 0 0"
 /evidence=predicted
 /translation="DEMWSFVNDKSNKQWIWLALDVITREIVGVYVGARSKQGARQLW NSLPGIYRQCAVaYTDfWDAYGCVFPKQ-RHQAVGKETGQTCYIERFNCTMRQRVSR RLVRKTL SFSKKLENHIGAIWMFVHHYNAS"
 /note="IS1_ORF2 e-value= 6.2e-32 fragment hit coverage= 54.43%, between model(237 aa) positions 109; 237 length is 129aa with 1 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(557656..557520)
 /colour="255 0 0"
 /evidence=predicted
 /translation="WQTDGWEGYSRQLANE---VIHHVSKALTQRLERTNGILRQOTS RWHRR"
 /note="IS1_ORF2 e-value= 1.2e-12 fragment hit coverage= 20.68%, between model(237 aa) positions 164; 212 length is 46aa with 3 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(522460..522219)
 /colour="255 0 0"
 /evidence=predicted
 /translation="VKLAELIPWESFESEYADQFSQ---TMGAPAKPFRVALGTLIIK EKLGISDAETVEQIRENPYLOQYFLGFSEYRESAPFDASML"
 /note="IS5_IS5 e-value= 2.6e-06 fragment hit coverage= 19.91%, between model(422 aa) positions 23; 106 length is 81aa with 3 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(481126..480390)
 /colour="255 0 0"
 /evidence=predicted
 /translation="-----TGVYKRTFkpMLHAWHTYHLRSRN--AGRPPKLCRCQD LVALQYWREYR TYFH IAGDWEVSESTVCRIVHQVETALMNSGLFRLPGQKSLLOGFER PDVVVMDVTETPIERPQTRQKAYYSGKKRDIPSNTRLSLTATLXRLSALT-----
 --LVQVGMIFrssrfqvSISIQIPRVCKIADIKGLQPII--PTAM----FLSRSHNT VNXLPCESEITVLXVRNEWALNTLIAAXRFSEFCRSAIAIVVVATRCGVTX"
 /note="IS5_ISL2 e-value= 1.9e-21 complete sequence hit coverage= 100%, between model(260 aa) positions 1; 260

length is 246aa with 23 gaps, 5 stops, absolute frame= Minus2"

CDS complement(481066..480756)
/colour="255 0 0"
/evidence=predicted
/translation="SRSNAGRPPKLCRCQDLLVALQYWREYRITYFHIAGDWEVSESTV
CRIVHQVETALMNSGLFRLPGQKSLQGFERPDVVVMDVTETPIERPQTRQKAYYS GK
KR"
/note="IS5_ISL2 e-value= 9.3e-44 fragment hit coverage= 40%, between model(260 aa) positions 26; 129 length is 104aa with 0 gaps, 0 stops, absolute frame= Minus2"

CDS complement(475153..474390)
/colour="255 0 0"
/evidence=predicted
/translation="SPYQHLSLYLKKLRLSHMLTHWESIESQA-MQENWSYAEFLAL
CETKAQRREQARLKRALTEARLPNA-KSFTNDFDFSHCPQLNPAPLMQLAAdPGWLER
ENCLILGPSGVGKTHLATGVSKKMLEFGKRVKFFAANALVQHLQOAKLQLOLH-PMLK
KLDRYDLLVLDDDLGYCKKSEAETSVLFELIAHRYERKSLITANQPFQWDDIFT-DS
MMAVAADRLIHHGLIIKIQADSYRRKSATQRTAQTQSPPO"
/note="IS21_ORF2 e-value= 7.2e-80 complete sequence hit coverage= 100%, between model(258 aa) positions 1; 258 length is 255aa with 4 gaps, 0 stops, absolute frame= Minus2"

CDS complement(475153..474390)
/colour="255 0 0"
/evidence=predicted
/translation="SPYQHLSLYLKKLRLSHMLTHWESIESQA-MQENWSYAEFLAL
CETKAQRREQARLKRALTEARLPNA-KSFTNDFDFSHCPQLNPAPLMQLAAdPGWLER
ENCLILGPSGVGKTHLATGVSKKMLEFGKRVKFFAANALVQHLQOAKLQLOLH-PMLK
KLDRYDLLVLDDDLGYCKKSEAETSVLFELIAHRYERKSLITANQPFQWDDIFT-DS
MMAVAADRLIHHGLIIKIQADSYRRKSATQRTAQTQSPPO"
/note="IS21_ORF2 e-value= 1.9e-80 complete sequence hit coverage= 100%, between model(258 aa) positions 1; 258 length is 255aa with 4 gaps, 0 stops, absolute frame= Minus2"

CDS complement(466177..466083)
/colour="255 0 0"
/evidence=predicted
/translation="AERG--ITLVELPSYSPHLNLIERLWQFMKYQWI"
/note="IS630 e-value= 1.7e-09 fragment hit coverage= 9.04%, between model(376 aa) positions 300; 333 length is 32aa with 2 gaps, 0 stops, absolute frame= Minus2"

CDS complement(339451..339123)
/colour="255 0 0"
/evidence=predicted
/translation="MVENRRGNHTVTRLTVHIVWVTKYRYQVLKGEVQKRCRELLIQI
CDAEDIRILKGVVSKDHVHMLIEYPPSKSISDIVKCLKGRTSRRLQOEYREXEKRYWG
KHLWAIGY"
/note="IS605 e-value= 3e-25 fragment hit coverage= 72.37%, between model(152 aa) positions 1; 110 length is 110aa with 0 gaps, 1 stops, absolute frame= Minus2"

CDS complement(339451..338973)
/colour="255 0 0"
/evidence=predicted
/translation="MVENRRGNHTVTRLTVHIVWVTKYRYQVLKGEVQKRCRELLIQI
CDAEDIRILKGVVSKDHVHMLIEYPPSKSISDIVKCLKGRTSRRLQOEYREXEKRYWG
KHLWAIGYGAWSTGnISEQMVEEYLEHHrlvsnnDLDTFMLEXIrTLVLRGTGLSVDK
"
/note="IS605 e-value= 2.6e-17 complete sequence hit coverage= 100%, between model(152 aa) positions 1; 152

length is 160aa with 0 gaps, 2 stops, absolute frame= Minus2"

CDS complement(339448..339063)
/colour="255 0 0"
/evidence=predicted
/translation="VENRRGNHTVTRLTVHIVVWTKYRYQVLKGEVQKRCRELLI-QI
CDAEDIRILKGVVSKDHVHMLIEYPPSKSISDIVKCLKGRTSRRLQQEYREXEKRYWG
KHLWAIGYGAWSTGNISEQMVEEYLEHH"
/note="IS200 e-value= 1.2e-47 fragment hit coverage= 84.42%, between model(154 aa) positions 1; 130 length is 129aa with 1 gaps, 1 stops, absolute frame= Minus2"

CDS complement(339448..339015)
/colour="255 0 0"
/evidence=predicted
/translation="VENRRGNHTVTRLTVHIVVWTKYRYQVLKGEVQKRCRELLI-QI
CDAEDIRILKGVVSKDHVHMLIEYPPSKSISDIVKCLKGRTSRRLQQEYREXEKRYWG
KHLWAIGYGAWSTGNISEQMVEEYLEHHRLVSNNDL-----DTFMLEXI"
/note="IS200 e-value= 1.5e-46 complete sequence hit coverage= 100%, between model(154 aa) positions 1; 154 length is 145aa with 9 gaps, 2 stops, absolute frame= Minus2"

CDS complement(339448..339063)
/colour="255 0 0"
/evidence=predicted
/translation="VENRRGNHTVTRLTVHIVVWTKYRYQVLKGE-VQKRCRELLIQI
CDAEDIRILKGVVSKDHVHMLIEYPPSKSISDIVKCLKGRTSRRLQQEYREXEKRYWG
KHLWAIGYGAWSTGNISEQMVEEYLEHH"
/note="IS200_IS605 e-value= 1.3e-45 fragment hit coverage= 84.97%, between model(153 aa) positions 1; 130 length is 129aa with 1 gaps, 1 stops, absolute frame= Minus2"

CDS complement(339448..338994)
/colour="255 0 0"
/evidence=predicted
/translation="VENRRGNHTVTRLTVHIVVWTKYRYQVLKGE-VQKRCRELLIQI
CDAEDIRILKGVVSKDHVHMLIEYPPSKSISDIVKCLKGRTSRRLQQEYREXEKRYWG
KHLWAIGYGAWSTGNISEQMVEEYLEHHRLVSNNDLDTFMLEXIRTLVLRG"
/note="IS200_IS605 e-value= 4.2e-45 complete sequence hit coverage= 100%, between model(153 aa) positions 1; 153 length is 152aa with 1 gaps, 2 stops, absolute frame= Minus2"

CDS complement(323713..323475)
/colour="255 0 0"
/evidence=predicted
/translation="RNQQHYIRQLTAIKLLNEGHSRTQVSEQVGCSDTLTRWMDKY
LDGGLQGLVQSI--RHQKPSRLSPEEQQLKEMVLTQR"
/note="IS481 e-value= 6.3e-08 fragment hit coverage= 23.36%, between model(351 aa) positions 1; 82 length is 80aa with 2 gaps, 0 stops, absolute frame= Minus2"

CDS complement(323686..323280)
/colour="255 0 0"
/evidence=predicted
/translation="RLTAIKLLNEGHSRTQVSEQVGCSDTLTRWMDKYLDGG---LQ
GLVQSIRHQKPSRLSPEEQQLKEMVLTQRPTDYGIDRNMWTGAILAVVIEQRFEVQL
KDSRIYELLSELGLSYQRAHRDYA--NADLNAQKEWVAA"
/note="IS630 e-value= 9.2e-30 fragment hit coverage= 37.50%, between model(376 aa) positions 30; 170 length is 136aa with 5 gaps, 0 stops, absolute frame= Minus2"

CDS complement(322042..321891)
/colour="255 0 0"

/evidence=predicted
 /translation="QLCLILDNNPETHKG-KMRSQLAIHLEqmgltqsiQVEFLYLPSY
 SPKLNLVE"
 /note="IS630 e-value= 4.3e-06 fragment hit coverage=
 11.70%, between model(376 aa) positions 279; 322 length
 is 51aa with 1 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(259486..259350)
 /colour="255 0 0"
 /evidence=predicted
 /translation="WQTDGWEGYARQLPDE---VVHEVSKALTQRLERTNGIVRQQTG
 RWHRR"
 /note="IS1_ORF2 e-value= 1.8e-11 fragment hit coverage=
 20.68%, between model(237 aa) positions 164; 212 length
 is 46aa with 3 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(127654..127374)
 /colour="255 0 0"
 /evidence=predicted
 /translation="PMSHLIDTLKQVPDFRSARGRTHPLWLLLLLMMVMGLAGYQGYC
 PLETFTSDYQQPLCELLGLENF-----QVPSHCTFRRVMKGLDFQSLSHQFEAWM"
 /note="ISAs1 e-value= 1.2e-14 fragment hit coverage=
 25.45%, between model(389 aa) positions 1; 99 length is
 94aa with 5 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(105898..105813)
 /colour="255 0 0"
 /evidence=predicted
 /translation="ITYHKLHFHTEWECKYRVVFIPKYCQKCIY"
 /note="IS200 e-value= 2.1e-06 fragment hit coverage=
 18.83%, between model(154 aa) positions 1; 29 length is
 29aa with 0 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(105898..105807)
 /colour="255 0 0"
 /evidence=predicted
 /translation="ITYHKLHFHTEWECKYRVVFIPKYCQKCIYSN"
 /note="IS200_IS605 e-value= 4.7e-06 fragment hit
 coverage= 20.26%, between model(153 aa) positions 1; 31
 length is 31aa with 0 gaps, 0 stops, absolute frame=
 Minus2"
 CDS complement(105892..105807)
 /colour="255 0 0"
 /evidence=predicted
 /translation="---YHKLHFHTEWECKYRVVFIPKYCQKCIYSN"
 /note="IS605 e-value= 9.3e-06 fragment hit coverage=
 21.05%, between model(152 aa) positions 1; 32 length is
 29aa with 3 gaps, 0 stops, absolute frame= Minus2"
 CDS complement(62245..61035)
 /colour="255 0 0"
 /evidence=predicted
 /translation="DELIGENPQPEdiLGESGLLKRLSKRLVERALAGELTHHLQOSS
 NDQS-GDeNSNGPRNSRNGYSKKTVQSEQG-EMDLSIPRDRCG-EFEPVLVPKGQRRI
 A-GLDEKIIALYARGMTTRDIRAQLVELYG--ANISEALISDVTNSVMEEVKDWRSRP
 LDEV--YPIVYLDALYVNIKVNGQVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAK
 FWLSVLTDLKNRGTQDILIIACCDGLKGFPOAIESVYPQTQVQVCIVHLIRNSLRHVPW
 KESRAVAADLKPIYQAATLE-ESEAALDAFAH-KWDETYPGISQIWIRHWDNVAPLFG
 YPMAIRKVIYTTNAIESLNRSLRKVIKTKAVFPNEESVYKLMFLAMRNISKR-WTRPI
 LNWKAAALSHFAILFPTRFNXYIH"
 /note="IS256 e-value= 1.4e-166 complete sequence hit
 coverage= 100%, between model(410 aa) positions 1; 410
 length is 404aa with 11 gaps, 1 stops, absolute frame=
 Minus2"
 CDS complement(62245..61035)

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/colour="255 0 0"
/evidence=predicted
/translation="DELIGENPOPEdiLGESGLLKRLSKRLVERALAGELTHHLOQSS
NDQS-GDeNSNGPRNSRNGYSKKTVOSEQG-EMDLSIPRDRCG-EFEPVLVPGQORRI
A-GLDEKIIALYARGMTRDIRAQLVELYG--ANISEALISDVTNSVMEEVKDWRSRP
LDEV--YPIVYLDALYVNIKVNGQVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAK
FWLSVLTDLKNRGTQDILIIACCDGLKGFPOAIESVYPQTQVQVCIVHLIRNSLRHVPPW
KESRAVAADLKPIYQAATLE-ESEAALDAFAH-KWDETYPGISQIWIRHWDNVAPLFQ
YPMAIRKVIYTTNAIESLNRSLRKVIKTKAVFPNEESVYKLMFLAMRNISKR-WTRPI
LNWKAALSHFAILFPTRFNXIH"
/note="IS256 e-value= 3.7e-167 complete sequence hit
coverage= 100%, between model( 410 aa) positions 1; 410
length is 404aa with 11 gaps, 1 stops, absolute frame=
Minus2"
CDS complement(6379401..6378635)
/colour="255 0 0"
/evidence=predicted
/translation="PCLGRFILIYFTKLQLPPOKKYCDLEXWIISA---IILGYNGGEF
RXLIQPIIwLVLMPVAFRIALLSDIKNLV-----FPSILSXRLFEXXV----KL
SRYXsVNTQTLDRTXRAMPTAYDSDLTTLQWELLEPLIPAAKP-GGRPRT-TDMLSVL
NAIFYLVVVTGCQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRMQVRVSE----
-----DRHPSPSAAICDAQSVkvgnpRCHLIGFDGGKM
VKGRKRHVLDVTLGLVLMVMVTAANIS"
/note="IS5_IS427 e-value= 4.4e-06 complete sequence hit
coverage= 100%, between model( 296 aa) positions 1; 296
length is 256aa with 47 gaps, 6 stops, absolute frame=
Minus3"
CDS complement(6379161..6378293)
/colour="255 0 0"
/evidence=predicted
/translation="EKXVKLSRYXSVNTQTLDRTXramptaYDSDLTTLQWELLEPLI
PAAKPG-----GRPRTTDML-----SVLNNAIFYLVVVTGCQWRQ
--LPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRMQVRVSED---RHPSPSAAICDAQ
SVK-----VGNpRcHLIGFD-----GGKM-
-----VKGRKRHVLD-TL
GLVLMVMVTAANISDQRGAK-----ILFWKAQRQGASLSRL
VR----IWADAGYQGQALMKWVMDRFQYVLEVVKRSDNLAGFQVIPKRWIVERTFGWL
LWSRRLNKDYEVLTRTAEALVYVAMIRLMVRRLAQEHX"
/note="IS5_IS5 e-value= 1.8e-09 complete sequence hit
coverage= 100%, between model( 422 aa) positions 1; 422
length is 290aa with 140 gaps, 4 stops, absolute frame=
Minus3"
CDS complement(6379122..6378272)
/colour="255 0 0"
/evidence=predicted
/translation="TQTLDRTXRAM-----PTAYDSDLTTLQWELLEPLIPAAK----
---PGGRPRTTDMLSVLNNAIFYLVVVTGCQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQ
INEHLRMQVRVSEDRHPSPSAAICDAQSVKVGnpRCH-LIGFDGGKMVKGRKRHVLDV
TLGLVLMVMVTAANISDQR-GAKILFWKAQRQGasLSRLVRIWADAGYQGQALMKWV
DRFQYVLEVVKRSDNLAGFQVIPKRWIVERTFGWLLWSRRLNKDYEVLTRTAEALVYV
AMIRLMVRRLAQEHXNFSNSLL"
/note="IS5_IS1031 e-value= 3.6e-111 complete sequence hit
coverage= 100%, between model( 295 aa) positions 1; 295
length is 284aa with 14 gaps, 2 stops, absolute frame=
Minus3"
CDS complement(6379080..6378272)
/colour="255 0 0"
/evidence=predicted
/translation="YDSDLTTLQWELLEPLIPAAK-----PGGRPRTTDMLSVLNA
IFYLVVVTGCQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRMQVRVSEDRHPS

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SAAICDAQSVKVGPNRCH-LIGFDGGKMKVGRKRHVLDVTLGLVLMVMVTAANISDQR
 -GAKILFWKAQRQGaslSRLVRIWADAGYQGQALMKWVMDRFQYVLEVVKRSDNLAGF
 QVIPKRWIVERTFGWLLWSRRLNKDYEVLTTRTAEALVYVAMIRLMVRRLAQEHXNFSN
 SLL"
 /note="IS5_IS1031 e-value= 2.4e-113 fragment hit
 coverage= 93.56%, between model(295 aa) positions 20;
 295 length is 270aa with 9 gaps, 1 stops, absolute frame=
 Minus3"
 CDS complement(6379071..6378833)
 /colour="255 0 0"
 /evidence=predicted
 /translation="DLTTLQWELLEPLIPAAKP-GGRPRT-TDMLSVLNAIFYLVVTG
 CQWRQLPHDFPCWSTVYSYFRRWRDDGTWSQINEHLRM"
 /note="IS5_IS427 e-value= 2e-19 fragment hit coverage=
 27.70%, between model(296 aa) positions 125; 206 length
 is 80aa with 2 gaps, 0 stops, absolute frame= Minus3"
 CDS complement(6361275..6360608)
 /colour="255 0 0"
 /evidence=predicted
 /translation="QRFIQGLSPETIHLLSRIHRHSHHHQVRQRAHCILLSFEGFNVT
 ELMSIFAVTRKTVYTWLDAWDNHC---LVGLYDQPGRGRKPKLRDQV-KEQIREWAKM
 TP-----HNLNVVLAKIKEAWNIEVSKTTLKRILKSCSMSWRRLRRRVAGQDPD
 VEYATK-----RHQLEVLKRQEEKGELdlrYLDESGFCLVPYVPY-AWQEKG-ETLGL
 PSQRSGRFNVLGLMNRHNDLTSYVF"
 /note="IS630 e-value= 4.6e-12 fragment hit coverage=
 63.83%, between model(376 aa) positions 1; 240 length is
 223aa with 20 gaps, 0 stops, absolute frame= Minus3"
 CDS complement(6361275..6360251)
 /colour="255 0 0"
 /evidence=predicted
 /translation="QRFIQGLSPETIHLLSRIHRHSHHHQVRQRAHCILLSFEGFNVT
 ELMSIFAVTRKTVYTWLDAWDNHC---LVGLYDQPGRGRKPKLRDQV-KEQIREWAKM
 TP-----HNLNVVLAKIKEAWNIEVSKTTLKRILKSCSMSWRRLRRRVAGQDPD
 VEYATK-----RHQLEVLKRQEEKGELdlrYLDESGFCLVPYVPY-AWQEKG-----
 -----ETLGLPSQRSGRFNVLGLMNRHNDLTSYVFDKITSAVVVACIDDFSQTC
 DQHT----VVMDQASIHKNTEIEENIEDWKAKNVEIFWLPTYSPHLNLIIEIFWRFMK
 YEWLEFDAYKCLGSLSLYIDKILKGFGR--DYVIDFGXVLSVLLFGY"
 /note="IS630 e-value= 3.7e-16 complete sequence hit
 coverage= 100%, between model(376 aa) positions 1; 376
 length is 342aa with 39 gaps, 1 stops, absolute frame=
 Minus3"
 CDS complement(6360546..6360377)
 /colour="255 0 0"
 /evidence=predicted
 /translation="DQHTVVVMDQASIHKNTEIEENIEDWKAKNVEIFWLPTYSPHLN
 LIEIFWRFMKYEW"
 /note="IS630 e-value= 1.9e-12 fragment hit coverage=
 14.89%, between model(376 aa) positions 277; 332 length
 is 57aa with 0 gaps, 0 stops, absolute frame= Minus3"
 CDS complement(6350184..6349745)
 /colour="255 0 0"
 /evidence=predicted
 /translation="-RNVTXEAKSYDMGLHHIVFIPKRRRRVIYGSLRIRLGVLFRLD
 AEQRDVEILEGHLLPDHVMCMSIPPKHAVSGVVGFMKGKSAIAIARQFMGKRRNYSG
 ESFWAXGYVSTVDLYEGMVRAYIRNQELENDARLEQLSLPLGX----CXR"
 /note="IS605 e-value= 1e-36 complete sequence hit
 coverage= 100%, between model(152 aa) positions 1; 152
 length is 147aa with 5 gaps, 4 stops, absolute frame=
 Minus3"
 CDS complement(6350172..6349730)

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/colour="255 0 0"
/evidence=predicted
/translation="XEAKSYDMGLH----HIVFIPKRRRRVIYGSLRIRLGVLFR-DL
AEQRDVEILEGHLLPDHVHMCMSIPPKHAVSGVVGFMKGKSAIAIARQFMGKRRNYSG
ESFWAXGYVSTVD-LYEGMVRAYIRNQELEDARLEQLSLPLGXCRVAPWG"
/note="IS200 e-value= 2.5e-35 complete sequence hit
coverage= 100%, between model( 154 aa) positions 1; 154
length is 148aa with 6 gaps, 4 stops, absolute frame=
Minus3"
CDS complement(6350172..6349733)
/colour="255 0 0"
/evidence=predicted
/translation="XEAKSYDMGLH----HIVFIPKRRRRVIYGS-LRIRLGVLFRDL
AEQRDVEILEGHLLPDHVHMCMSIPPKHAVSGVVGFMKGKSAIAIARQFMGKRRNYSG
ESFWAXGYVSTVD-LYEGMVRAYIRNQELEDARLEQLSLPLGXCRVAPW"
/note="IS200_IS605 e-value= 8.1e-37 complete sequence hit
coverage= 100%, between model( 153 aa) positions 1; 153
length is 147aa with 6 gaps, 4 stops, absolute frame=
Minus3"
CDS complement(6350139..6349763)
/colour="255 0 0"
/evidence=predicted
/translation="HIVFIPKRRRRVIYGSLRIRLGVLFR-DLAEQRDVEILEGHLLP
DHVHMCMSIPPKHAVSGVVGFMKGKSAIAIARQFMGKRRNYSGESFWAXGYVSTVD-
LYEGMVRAYIRNQELEDARLEQLSLP"
/note="IS200 e-value= 1.2e-40 fragment hit coverage=
83.12%, between model( 154 aa) positions 16; 143 length
is 126aa with 2 gaps, 1 stops, absolute frame= Minus3"
CDS complement(6350139..6349760)
/colour="255 0 0"
/evidence=predicted
/translation="HIVFIPKRRRRVIYGS-LRIRLGVLFRDLAEQRDVEILEGHLLP
DHVHMCMSIPPKHAVSGVVGFMKGKSAIAIARQFMGKRRNYSGESFWAXGYVSTVD-
LYEGMVRAYIRNQELEDARLEQLSLPL"
/note="IS200_IS605 e-value= 7.4e-40 fragment hit
coverage= 84.31%, between model( 153 aa) positions 16;
144 length is 127aa with 2 gaps, 1 stops, absolute frame=
Minus3"
CDS complement(6350139..6349760)
/colour="255 0 0"
/evidence=predicted
/translation="HIVFIPKRRRRVIYGSLRIRLGVLFRDLAEQRDVEILEGHLLPD
HVHMCMSIPPKHAVSGVVGFMKGKSAIAIARQFMGKRRNYSGESFWAXGYVSTVDLY
EGMVRAYIRNQELEDARLEQLSLPL"
/note="IS605 e-value= 2.1e-41 fragment hit coverage=
83.55%, between model( 152 aa) positions 17; 143 length
is 127aa with 0 gaps, 1 stops, absolute frame= Minus3"
CDS complement(6347595..6346655)
/colour="255 0 0"
/evidence=predicted
/translation="TKNRXPMSYQIRNWSEYNAGLKQRGSVTFWLEQS--AIVHWLET
TPRQKRGASLTYSDTAISTFETVKCIYGLAGRQTEGFLNSLFELMGIELPVCDHSTVS
RRKGQLSISLPVIPKQGAIHVVIDSTGVKVG-----EGEWKTRQHGVS-K
RRTWRKLHLSVDESTGEILTGVVTTNDVQDGEVFEDLLEGIDD-----EIEQVSAD-G
AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHGNC--NApphpRDQ
NLRAIRKQGRKRWKKQAHYHRRSLAETTMFRFKTIFGGQVRSRNFNDNQATELLLOCA
LN-RMIQIAKPETVWVE"
/note="IS5_IS903 e-value= 1.1e-96 complete sequence hit
coverage= 100%, between model( 347 aa) positions 1; 347
length is 314aa with 37 gaps, 1 stops, absolute frame=

```


Minus3"
CDS complement(6347595..6346655)
/colour="255 0 0"
/evidence=predicted
/translation="TKNRXPMSYQIRNWSEYNAGLKQRGSVTFWLEQS--AIVHWLET
TPRQKRGASLTYSDTAISTFETVKCIYGLAGRQTEGFLNSLFELMGIELPVC DHSTVS
RRKGQLSISLPVIPKQGAIHVVIDSTGVKVIY-----EGEWKTRQHGVS-K
RRTWRKLHLSVDESTGEILTGVVTTNDVQDGEVFE DLLEGIDD-----EIEQVSAD-G
AYDQSHCYDALMERNATAAIPPRKNA-----KIWQHGC--NApphrDQ
NLRAIRKQGRKRWKKQAHYHRRSLAETTMFRFKTIFGGQVRSRNFNDQATELLQLCAA
LN-RMIQIAKPETVWVE"
/note="IS5_IS903 e-value= 2.2e-96 complete sequence hit
coverage= 100%, between model(347 aa) positions 1; 347
length is 314aa with 37 gaps, 1 stops, absolute frame=
Minus3"

CDS complement(6338160..6337466)
/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMI sDIKRKSLPAIARAVGLENHQSLHHLFSESPPWVAS
hLSDkRLDIILKILDGRRLILLID-----ETGDCKK GKSTDYVKR
QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
PQIAAGMIRQLQGMGF CFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY"
/note="IS4 e-value= 4.7e-14 fragment hit coverage=
51.23%, between model(486 aa) positions 1; 249 length is
232aa with 27 gaps, 0 stops, absolute frame= Minus3"

CDS complement(6338160..6337034)
/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMI sDIKRKSLPAIARAVGLENHQSLHHLFSESPPWVAS
hLSDkRLDIILKILDGRRLILLID-----ETGDCKK GKSTDYVKR
QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
PQIAAGMIRQLQGMGF CFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
AEQAVFAEPWQSFERTFSNGT-----TETRYR
QEIIYGQRHHQKRYWLLTTDPQTLPENSTS-----YVMAA
APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TLGWADFRMTHYEQIEKWWEIVMSA
FLMVSLFADVFNDS-----CPVAHQHFAQHPwWDNONG
WKNLLNNVR--LIIQPLIS----WNLLKRWLEVFPSRALKKGF"
/note="IS4 e-value= 9.9e-07 complete sequence hit
coverage= 100%, between model(486 aa) positions 1; 486
length is 376aa with 117 gaps, 0 stops, absolute frame=
Minus3"

CDS complement(6335550..6334313)
/colour="255 0 0"
/evidence=predicted
/translation="IRIPLNLPDI--RVLELSKTERGDWL-----IKIESTLQGTTC
HQCGREITDL-HCHDQ-PFRIRHLPLFEVPVYLEIRPKRYRCKYCD DhpTTTQHLEWH
EPRSPNTKAYERWLLRILIN-STVSDVARKLGVSE DIVSGIIDRWIAAQVDWSEYADL
KVMGMDEISLKR G--HR---DFVVLITIP TtdgVDILAVLADRKQQTVANFLQSIP-I
DLRQTIERVCTDMYQGFVSAVREQLPQAKIVIDRFHVTKAYRNCADTVRKREVKRLRR
ELS-----KQEYD-----SIKGAMWPFKRKPENLKES-EQQLLER
LFA--YSPQLKQAYNLREKLTQIFEGRYTKHGAKcAIRAWCKQVlKSGIKEFDSFLT
INNWMDEMTNYFLEG-WTSGFVEGFNNRVKVLKRRCYGIFDIERLFQRISLDLNGYQT
FAVTXTL"
/note="ISL3 e-value= 1.2e-45 complete sequence hit
coverage= 100%, between model(451 aa) positions 1; 451
length is 413aa with 44 gaps, 1 stops, absolute frame=
Minus3"

CDS complement(6335391..6334313)
/colour="255 0 0"

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/evidence=predicted
/translation="RIRHLPLFEVPVYLEIRPKRYRCKYCDDhpTTTQHLEWHEPRSP
NTKAYERWLLRILIN-STVSDVARKLGVSEDIVSGIIDRWIAAQVDWSEYADLKVMGM
DEISLKRQ--HR---DFVVLITIPPTdgVDILAVLADRKQQTVANFLOSIP-IDLRQT
IERVCTDMYQGFVSAVREQLPQAKIVIDRFHVTKAYRNCADTVRKREVKRLRRELS--
-----KQEYD-----SIKGAMWPFRRKRPENLKES-EQQLLERLFA--
YSPQLKQAYNLREKLTQIFEGRYTKHGAKcAIRAWCKQVLKSGIKEFDSFLTINNW
DEMTNYFLEG-WTSGFVEGFNRRVKVLKRRCYGIFDIERLRFQRIISLDLNGYQTFVAVX
TL"
/note="ISL3 e-value= 8.8e-52 fragment hit coverage=
86.03%, between model( 451 aa) positions 64; 451 length
is 360aa with 34 gaps, 1 stops, absolute frame= Minus3"
CDS complement(6315477..6314273)
/colour="255 0 0"
/evidence=predicted
/translation="TCSFFLTSXVSAIESGLLKRLSKRLVERALAGELTHHLOQSSND
QS-GDeNSNGPRNSRNGYSKKTQSEQG-EMDLSIPDRCG-EFEPVLVPGQORRIA-
GLDEKIIALYARGMTTRDIRAQLVELYG--ANISEALISDVINSVMEEVKDWRSRPLD
EV--YPIVYLDALYVNIKVNQVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAKFW
LSVLTDLKNRGTQDILIACCDGLKGFPOAIESVYPQTQVQVCIVHLIRNSLRHVPWKE
SRAVAADLKPIYQAATLE-ESEAALDAFAH-KWDETPGISQIWIHWDNVAPLFOYP
MAIRKVIYTTNAIESLNRSLRKVIKTKAVFPNEESVYKLMFLAMRNISKR-WTRPILN
WKAALSHFAILFPTRFNXYIH"
/note="IS256 e-value= 6.6e-165 complete sequence hit
coverage= 100%, between model( 410 aa) positions 1; 410
length is 402aa with 11 gaps, 2 stops, absolute frame=
Minus3"
CDS complement(6315435..6314273)
/colour="255 0 0"
/evidence=predicted
/translation="SGLLKRLSKRLVERALAGELTHHLOQSSNDQS-GDeNSNGPRNS
RNGYSKKTQSEQG-EMDLSIPDRCG-EFEPVLVPGQORRIA-GLDEKIIALYARGM
TTRDIRAQLVELYG--ANISEALISDVINSVMEEVKDWRSRPLDEV--YPIVYLDALY
VNIKVNQVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAKFWLSVLTDLKNRGTQD
ILIACCDGLKGFPOAIESVYPQTQVQVCIVHLIRNSLRHVPWKE SRAVAADLKPIYQA
ATLE-ESEAALDAFAH-KWDETPGISQIWIHWDNVAPLFOYPMAIRKVIYTTNAIE
SLNRSLRKVIKTKAVFPNEESVYKLMFLAMRNISKR-WTRPILN WKAALSHFAILFP
TRFNXYIH"
/note="IS256 e-value= 1.1e-164 fragment hit coverage=
96.59%, between model( 410 aa) positions 15; 410 length
is 388aa with 11 gaps, 1 stops, absolute frame= Minus3"
CDS complement(6239001..6238595)
/colour="255 0 0"
/evidence=predicted
/translation="MLLVRPISTESLRLHRIYHSSRHHQVRQRAHCLILFAQGWPY
TLASLFSVSPKTVYNWLKAWNNRG---FAGLYNH PGRGRKPMFNPDQQQIYEWTT-QA
SPIQ-----LNQVLAQIEQQWSVRVSKATVKRVLKQMDMSWHR"
/note="IS630 e-value= 8.7e-15 fragment hit coverage=
39.63%, between model( 376 aa) positions 1; 149 length is
136aa with 13 gaps, 0 stops, absolute frame= Minus3"
CDS complement(6238941..6238604)
/colour="255 0 0"
/evidence=predicted
/translation="SSRHHQVRQRAHCLILFAQGWPYTLASLFSVSPKTVYNWLKAW
NNRGFAGLYNH---PGRGRKPMFNPDQQQIYEWTTQASPIQLNQVLAQIEQQWSVR--
-VSKATVKRVLKQMDMS"
/note="IS481 e-value= 3.5e-09 fragment hit coverage=
33.62%, between model( 351 aa) positions 1; 118 length is
113aa with 6 gaps, 0 stops, absolute frame= Minus3"
CDS complement(6207357..6205703)

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/colour="255 0 0"
/evidence=predicted
/translation="FQQFLPCQDTLHLDSDWLDSTNHQMT-----FHVSTQAL
ACCPVCHQTSHRVHSRYERTLRDLPCVEFCLTILLQVCKFFCsnKTCKRRIfterlpQ
VAVPWARRTVRFAEHLSSIGLALGGAAAARLSYQINYGSSRNT----MLRALFKLPLP
-SVTPPKILGVDDFALRRG--HEYGTILVDLEKH----QPIVLLTDRKADTLADWLNE
HP-----GVEVISRDRSKAYKSGASEGAPDALQVADRFHLLQNLLEEILENVF-----
-----SSHSQ----VIKTVEYTLKATLAEHQDTEAMSQPvvpk
qvdpnrsrkaqnrarrlekyeqthalkqgylikdiahhlgigkrtvytylaadtfgqy
kthprrgwsglnpykaylleqwnkgrqnsqllaeiqqqgfgkgsytmvrvytklrqs
lppqpprdslnelpgrgpvpeaqeliqkpltvqraawlvmrkvenlTEEDETILE-QL
SSQPELSKAIDLAQSLLFIVR-KRLPQHLDLPWLDRAKN--SALKPFQSFAGLLDDYE
AVKA-ALTLEVSNGQVEGQNNRLK-----MVKRQMYGRAGLDDLNLKRLV
L"

/note="ISL3 e-value= 9.2e-10 complete sequence hit
coverage= 100%, between model(451 aa) positions 1; 451
length is 552aa with 73 gaps, 0 stops, absolute frame=
Minus3"

CDS complement(6206910..6206654)

/colour="255 0 0"
/evidence=predicted
/translation="TTPKILGVDDFALRRG--HEYGTILVDLEKH----QPIVLLTDR
KADTLADWLNEHP-----GVEVISRDRSKAYKSGASEGAPDALQVADRFHLLQ"

/note="ISL3 e-value= 1.5e-21 fragment hit coverage=
21.73%, between model(451 aa) positions 156; 253 length
is 86aa with 12 gaps, 0 stops, absolute frame= Minus3"

CDS complement(6206475..6206177)

/colour="255 0 0"
/evidence=predicted
/translation="RLEKYEQTHALRKQGYLIKDIAHHLGIGKRTVYTYLAADTFQY
KTHPRR-----GWSGLNPYKAYLLEQWNKGRQNSKQ-----LLAEIQOQGFQK
SYTMVVRYTHKLR"

/note="IS21_ORF1 e-value= 2.7e-14 fragment hit coverage=
21.90%, between model(525 aa) positions 1; 115 length is
100aa with 15 gaps, 0 stops, absolute frame= Minus3"

CDS complement(6206010..6205742)

/colour="255 0 0"
/evidence=predicted
/translation="LEQLSSQPELSKAIDLAQSLLFIVR-KRLPQHLDLPWLDRAKN--
SALKPFQSFAGLLDDYEAVKA-ALTLEVSNGQVEGQNNRLKMKVQRQMYG"

/note="ISL3 e-value= 1.6e-06 fragment hit coverage=
20.84%, between model(451 aa) positions 331; 424 length
is 90aa with 4 gaps, 0 stops, absolute frame= Minus3"

CDS complement(6205539..6203885)

/colour="255 0 0"
/evidence=predicted
/translation="FQQFLPCQDTLHLDSDWLDSTNHQMT-----FHVSTQAL
ACCPVCHQTSHRVHSRYERTLRDLPCVEFCLTILLQVCKFFCsnKTCKRRIfterlpQ
VAVPWARRTVRFAEHLSSIGLALGGAAAARLSYQINYGSSRNT----MLRALFKLPLP
-SVTPPKILGVDDFALRRG--HEYGTILVDLEKH----QPIVLLTDRKADTLADWLNE
HP-----GVEVISRDRSKAYKSGASEGAPDALQVADRFHLLQNLLEEILENVF-----
-----SSHSQ----VIKTVEYTLKATLAEHQDTEAMSQPvvpk
qvdpnrsrkaqnrarrlekyeqthalkqgylikdiahhlgigkrtvytylaadtfgqy
kthprrgwsglnpykaylleqwnkgrqnsqllaeiqqqgfgkgsytmvrvytklrqs
lppqpprdslnelpgrgpvpeaqeliqkpltvqraawlvmrkvenlTEEDETILE-QL
SSQPELSKAIDLAQSLLFIVR-KRLPQHLDLPWLDRAKN--SALKPFQSFAGLLDDYE
AVKA-ALTLEVSNGQVEGQNNRLK-----MVKRQMYGRAGLDDLNLKRLV
L"

/note="ISL3 e-value= 9.2e-10 complete sequence hit
coverage= 100%, between model(451 aa) positions 1; 451

length is 552aa with 73 gaps, 0 stops, absolute frame= Minus3"

CDS complement(6205092..6204836)
/colour="255 0 0"
/evidence=predicted
/translation="TTPKILGVDDFALRRG--HEYGTILVDLEKH----QPIVLLTDR
KADTLADWLNEHP-----GVEVISRDRSKAYKSGASEGAPDALQVADRFHLLQ"
/note="ISL3 e-value= 1.5e-21 fragment hit coverage= 21.73%, between model(451 aa) positions 156; 253 length is 86aa with 12 gaps, 0 stops, absolute frame= Minus3"

CDS complement(6204657..6204359)
/colour="255 0 0"
/evidence=predicted
/translation="RLEKYEQTHALRKQGYLIKDIAHHLGIGKRTVYTYLAADTFQEY
KTHPRR-----GWSGLNPKAYLLEQWNKGRQNSKQ-----LLAEIQOQGFKG
SYTMVVRYTHKLR"
/note="IS21_ORF1 e-value= 2.7e-14 fragment hit coverage= 21.90%, between model(525 aa) positions 1; 115 length is 100aa with 15 gaps, 0 stops, absolute frame= Minus3"

CDS complement(6204192..6203924)
/colour="255 0 0"
/evidence=predicted
/translation="LEQLSSQPELSKAIDLAQSLLFIVR-KRLPQHLDLPWLDRAKN--
SALKPFQSFAGLLDDYEAVKA-ALTLEVSNGQVEGQNNRLKMKVQRQMYG"
/note="ISL3 e-value= 1.6e-06 fragment hit coverage= 20.84%, between model(451 aa) positions 331; 424 length is 90aa with 4 gaps, 0 stops, absolute frame= Minus3"

CDS complement(6061491..6061148)
/colour="255 0 0"
/evidence=predicted
/translation="KYIVTLTPPEERSELIQLTRRRRTLSARKMKRAQIILMLADEGHKDD
TITQMLNAGISTVHRTRQKFVEGG---VEFALNERPRPGGQKKLDSKAEALLIATACS
DPPTG----CCRWTMQLLAE"
/note="IS630 e-value= 1.2e-15 fragment hit coverage= 32.18%, between model(376 aa) positions 1; 121 length is 115aa with 7 gaps, 0 stops, absolute frame= Minus3"

CDS complement(5745174..5744480)
/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMI sDIKRKSLPAIARAVGLENHQSLHHLFSESPWVAS
hLSDkRLDIILKILDGRRLILLID-----ETGDCKKGKSTDYVKR
QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY"
/note="IS4 e-value= 4.7e-14 fragment hit coverage= 51.23%, between model(486 aa) positions 1; 249 length is 232aa with 27 gaps, 0 stops, absolute frame= Minus3"

CDS complement(5745174..5744048)
/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMI sDIKRKSLPAIARAVGLENHQSLHHLFSESPWVAS
hLSDkRLDIILKILDGRRLILLID-----ETGDCKKGKSTDYVKR
QYIGNVGKKENGIvAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
AEQAVFAEPWQSFERTFSNGT-----TETRYR
QEIIYGQRHHQKRYWLLTTDPQTLPENSTS-----YVMAA
APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TLGWADFRMTHYEQIEKWEIVMSA
FLMVSLFADVFNDS-----CPVAHQHFAQHPwWDNONG
WKNLLNNVR--LIIQPLIS----WNLLKRWLEVFPSRALKKGf"
/note="IS4 e-value= 9.9e-07 complete sequence hit"

coverage= 100%, between model(486 aa) positions 1; 486 length is 376aa with 117 gaps, 0 stops, absolute frame= Minus3"

CDS complement(5719893..5719670)
/colour="255 0 0"
/evidence=predicted
/translation="SQMSTLTCPNCRSQN-VVKNGRIHNGKQNHKCKTCGRQFV--EA
PQQKRIDSSTKGLIDKLLLEKIPLAGIARVCDVS"
/note="IS1_ORF1 e-value= 3.6e-14 fragment hit coverage= 32.64%, between model(239 aa) positions 1; 78 length is 75aa with 3 gaps, 0 stops, absolute frame= Minus3"

CDS complement(5522628..5522375)
/colour="255 0 0"
/evidence=predicted
/translation="HIEFSyplMQCPLCGHPK-IYKHGKTSKGSQRXRPCPHCHQTFS-
DtfdTLYYRRQISPQTIQVILQSHAEGSSFRGLPRITGVAYNT"
/note="IS1_ORF1 e-value= 9e-13 fragment hit coverage= 33.89%, between model(239 aa) positions 1; 81 length is 85aa with 2 gaps, 1 stops, absolute frame= Minus3"

CDS complement(5391534..5391422)
/colour="255 0 0"
/evidence=predicted
/translation="KDYERXTDSTEVMYICMIRLMVRRVAXTLRRWSLFTH"
/note="IS5_IS1031 e-value= 2.7e-08 fragment hit coverage= 12.88%, between model(295 aa) positions 258; 295 length is 38aa with 0 gaps, 2 stops, absolute frame= Minus3"

CDS complement(5338785..5338049)
/colour="255 0 0"
/evidence=predicted
/translation="-----TGVIKRTFkpMLHAWHTYHLSRSN--AGRPPKLCRCQDL
LVALQYWREYRTYFHIAGDWEVSESTVCRIVHQVETALMNSGLFRLPGQKSLLOQFER
PDVVVMDVTETPIERPQTRQKAYYSGKKRDIPSNARLSLTATLXrlsaltLVQVVG--
-----MIFRSSRVQVSISIQIPRVCKIADIKGLQ-----PIMP-TAMFLSRSHNTV
NXLPCSESITVLXVRNEWALNTLIAAXRFSEFCRSAIAIVVVATRCGVTX"
/note="IS5_ISL2 e-value= 3.1e-21 complete sequence hit coverage= 100%, between model(260 aa) positions 1; 260 length is 246aa with 22 gaps, 5 stops, absolute frame= Minus3"

CDS complement(5338725..5338415)
/colour="255 0 0"
/evidence=predicted
/translation="SRSNAGRPPKLCRCQDLLVALQYWREYRTYFHIAGDWEVSESTV
CRIVHQVETALMNSGLFRLPGQKSLLOQFERPDVVVMDVTETPIERPQTRQKAYYSGK
KR"
/note="IS5_ISL2 e-value= 9.3e-44 fragment hit coverage= 40%, between model(260 aa) positions 26; 129 length is 104aa with 0 gaps, 0 stops, absolute frame= Minus3"

CDS complement(5175534..5174819)
/colour="255 0 0"
/evidence=predicted
/translation="YLSPEs-LQCRASSKVVSMXSTVGNPS-----ILARISDL
FPHCWRLGSLXINRLPYCpGRDRSDELRTLSTLSEISATR-----VRATGCR
CDGCDXNAHXTSPDKTKSVLF----RKKKRHTFKCQIIANRNTLEIICLVNPGPGRHRD
FQIFKSGIHIHPDTEsLQDSGYQGIAAYHANSYVPLKKPQHGEsLTSLOREYNRALSQ
ERMGIEHINRSLKIFRILSERYRNRRRRYALRCNLIAAIYNYEL"
/note="IS5_ISL2 e-value= 1.5e-39 complete sequence hit coverage= 100%, between model(260 aa) positions 1; 260 length is 239aa with 23 gaps, 4 stops, absolute frame= Minus3"

CDS complement(5175219..5174819)

/colour="255 0 0"
 /evidence=predicted
 /translation="KKKRHTFKCQIIANRNTLEIICLNVGPGRRHDFQIFKSGSIHIH
 PDTESLQDSGYQGIAAYHANSYVPLKKPQHGELTSLOREYNRALSQERMGIEHINRSL
 KIFRILSERYRNRRRRYALRCNLIAAIYNYEL"
 /note="IS5_ISL2 e-value= 6.5e-62 fragment hit coverage=
 51.54%, between model(260 aa) positions 127; 260 length
 is 134aa with 0 gaps, 0 stops, absolute frame= Minus3"
 CDS complement(5122416..5122250)
 /colour="255 0 0"
 /evidence=predicted
 /translation="SRRRAYPNDSMTEWDVLRPLLPPANGFR-----RPRTVNLR
 EILNAIFYVQRSGYQWEML"
 /note="IS5_IS1031 e-value= 1.2e-20 fragment hit coverage=
 21.36%, between model(295 aa) positions 15; 77 length is
 56aa with 7 gaps, 0 stops, absolute frame= Minus3"
 CDS complement(4461825..4461482)
 /colour="255 0 0"
 /evidence=predicted
 /translation="KYIVTLTPEERSELIQLTRRRTL SARKMKRAQILMLADEGHKDD
 TITQMLNAGISTVHRTRQKFVEGG---VEFALNERPRPGGQKKLDSKAEALLIATACS
 DPPTG----CCRWTMQLLAE"
 /note="IS630 e-value= 1.2e-15 fragment hit coverage=
 32.18%, between model(376 aa) positions 1; 121 length is
 115aa with 7 gaps, 0 stops, absolute frame= Minus3"
 CDS complement(4252959..4252802)
 /colour="255 0 0"
 /evidence=predicted
 /translation="HHPHPRVQRRMEVLYLKSQGLPHAQICQLCQISRPTLAKTLRLY
 QGGIEGLK"
 /note="IS481 e-value= 1.1e-08 fragment hit coverage=
 15.10%, between model(351 aa) positions 1; 53 length is
 53aa with 0 gaps, 0 stops, absolute frame= Minus3"
 CDS complement(4219197..4219103)
 /colour="255 0 0"
 /evidence=predicted
 /translation="AERG--ITL FELPSYSPHLNLIERLWQFMKYQWI"
 /note="IS630 e-value= 1.8e-09 fragment hit coverage=
 9.04%, between model(376 aa) positions 300; 333 length
 is 32aa with 2 gaps, 0 stops, absolute frame= Minus3"
 CDS complement(4134504..4134368)
 /colour="255 0 0"
 /evidence=predicted
 /translation="WQTDGXDGYSRQLPDE---VIHHVSKALTQRLERTNGILWQQTG
 RWHRR"
 /note="IS1_ORF2 e-value= 3.9e-08 fragment hit coverage=
 20.68%, between model(237 aa) positions 164; 212 length
 is 46aa with 3 gaps, 1 stops, absolute frame= Minus3"
 CDS complement(3873963..3873578)
 /colour="255 0 0"
 /evidence=predicted
 /translation="YADESGMDHRDEYDY-AYGPKGE-----RVYA-LKTG-
 RRSGRVNMIAALRAKQL--MAPFTIEGACNRTVFELwLERCLIPvIKPGQKLVII--DN
 ATFHKGGQIQELVEKAG--CEVWYLPPYSPDLNKIERSWSWIKSRIR"
 /note="IS630 e-value= 1.1e-13 fragment hit coverage=
 38.83%, between model(376 aa) positions 188; 333 length
 is 129aa with 20 gaps, 0 stops, absolute frame= Minus3"
 CDS complement(3585738..3585497)
 /colour="255 0 0"
 /evidence=predicted

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/translation="VKLAELIPWESFESEYADQFSQ---TMGAPAKPFRVALGTLIIK
EKLGISDAETVEQIRENPYLOYFLGFSEYRESAPFDASML"
/note="IS5_IS5 e-value= 2.6e-06 fragment hit coverage=
19.91%, between model( 422 aa) positions 23; 106 length
is 81aa with 3 gaps, 0 stops, absolute frame= Minus3"
CDS complement(3216468..3216083)
/colour="255 0 0"
/evidence=predicted
/translation="YADESGMDHRDEYDY-AYGPKGE-----RVYA-LKTG-
RRSGRVNMIAALRAKQL--MAPFTIEGACNRTVFELwLERCLIPvLKPGQKLVl--DN
ATFHKGGQIQELVEKAG--CEVWYLPYPSPDLNKIERSWSWIKSRIR"
/note="IS630 e-value= 1.1e-13 fragment hit coverage=
38.83%, between model( 376 aa) positions 188; 333 length
is 129aa with 20 gaps, 0 stops, absolute frame= Minus3"
CDS complement(2709669..2709254)
/colour="255 0 0"
/evidence=predicted
/translation="IERLQTKHP--HQIVYVDEAGIDNRADYPY-GYCPVG-----
---QRFYD-LKSG-KRTERVSFIAALKEGQL--FSPMIFEGSCNRLLEAWLQOSLI
-SQLQLGdVIVIDNASFHHGQRIEEIIVAEAG--CEIWYLPSPDLNKIERWWFVLKN
"
/note="IS630 e-value= 7.3e-15 fragment hit coverage=
42.02%, between model( 376 aa) positions 173; 330 length
is 139aa with 21 gaps, 0 stops, absolute frame= Minus3"
CDS complement(2412987..2412026)
/colour="255 0 0"
/evidence=predicted
/translation="LLRAIISSLyVSCWDWR-TSKFR-----LTVPFDAXXRGLTSN
RXATNLKLGCSRKLRLTLPIIMQHPWMangFVRGSpMKTASSVLXDWXV-----YSQ
WKQASPSSSKPS-----LRRIIAKS-KSSRlywkHYNSMACXSPWMP----YTP
KKT-----L-----QOVVASVN-DYLIAVKRNQGRl
YDHLQTYFeCLKPMAEHTHS-----IQSRGREEHRCIQVYEPVGI---ALQEWEAIRS
VLCVQRWGTRQGKAY----HNTAYYISSAATSPHH---WQSLVREHWGIENRLHWPkd
VVFGEDDYRLEDEQALLNWSVLRTIVINILRLNG--YQSLKTAMTKLANRVDIIIFSLl
TXNSPA"
/note="ISAs1 e-value= 1.9e-08 complete sequence hit
coverage= 100%, between model( 389 aa) positions 1; 389
length is 321aa with 77 gaps, 7 stops, absolute frame=
Minus3"
CDS complement(2412552..2412110)
/colour="255 0 0"
/evidence=predicted
/translation="DYLIAVKRNQGRlYDHLQTYFeCLKPMAEHTHS-----IQSRGR
EEHRCIQVYEPVGI---ALQEWEAIRSVLCVQRWGTRQGKAY----HNTAYYISSAAT
SPHH---WQSLVREHWGIENRLHWPkdVVFGEDDYRLEDEQALLNWSVLRTIVINILR
LNG"
/note="ISAs1 e-value= 2.4e-27 fragment hit coverage=
41.65%, between model( 389 aa) positions 198; 359 length
is 148aa with 15 gaps, 0 stops, absolute frame= Minus3"
CDS complement(2404083..2403389)
/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMIIsDIKRKSLPAIARAVGLENHQSLHHFLSESPWVAS
hLSDkRLDIILKILDGRRLILLID-----ETGDCKKKGKSTDYVKR
QYIGNVGKKENGIvAVTAYGLFQGMILPLSFVYKPR-----ErLKEEDEYLSK
PQIAAGMIRQLQGMGFCELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY"
/note="IS4 e-value= 4.7e-14 fragment hit coverage=
51.23%, between model( 486 aa) positions 1; 249 length is
232aa with 27 gaps, 0 stops, absolute frame= Minus3"

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CDS complement(2404083..2402957)
/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMISDIKRKSLPAIARAVGLENHQSLHHFLSESPWVAS
hLSDkRLDIILKILDGRRLLILLID-----ETGDCKKKGKSTDYVKR
QYIGNVGGKENGIVAVTAYGLFQGMILPLSFEVYKPR-----ErLKEEDEYLSK
PQIAAGMIRQLQGMGFCFELVLADSLYGEOQTNFVNVLEELKLPYILAIRSNHAVWLP
AEQAVFAEPWQSFERTFSNGT-----TETRYR
QEIIYGQRHHQKRYWLLTTDPQTLPENSTS-----YVMAA
APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TLGWADFRMTHYEQIEKWWEIVMSA
FLMVSLFADVFNDS-----CPVAHQHFAQHPWWDNONG
WKNLLNNVR--LIIQPLIS----WNLLKRWLEVFPSRALKKGF"
/note="IS4 e-value= 9.9e-07 complete sequence hit
coverage= 100%, between model(486 aa) positions 1; 486
length is 376aa with 117 gaps, 0 stops, absolute frame=
Minus3"

CDS complement(2382702..2382314)
/colour="255 0 0"
/evidence=predicted
/translation="FFMDESGFSLVPCIPY-GWQPIG-----TYL-EIPT
RSSKRLNVLGFLSRRQGL--HAYTSEQTITSEVShCIDTFFADV--ELPTVIVVDQA
PIHTSQsiyEMKAEWAERG--ITLFELPSYSPHLNLIERLWQFMKYQWI"
/note="IS630 e-value= 6.5e-11 fragment hit coverage=
39.10%, between model(376 aa) positions 187; 333 length
is 130aa with 21 gaps, 0 stops, absolute frame= Minus3"

CDS complement(2279970..2279714)
/colour="255 0 0"
/evidence=predicted
/translation="SMCEPCCQSQK-IHKRGFDSLqdgTLVQRYQCEDCNRRFK-ERT
GNPMARLRttslVVSYAIAIKARTKGMGVRATGRFTGTSHTTIMRW"
/note="IS1_ORF1 e-value= 8.4e-08 fragment hit coverage=
33.89%, between model(239 aa) positions 5; 85 length is
86aa with 2 gaps, 0 stops, absolute frame= Minus3"

CDS complement(1504611..1503287)
/colour="255 0 0"
/evidence=predicted
/translation="CSDSVTLDF----YQDHPLCVQFSDLDLSSDVGILLAAQAESRI
HICQDIADCIEEWRDPDKLTHSLPQLVAQRVYQLIGGYEDANDSDSLRHDPIFKIACE
YLPPIPESnVLASQLTISRLENQVTTDQTAAMRRQFIDRFIA-----SYPHPPSTIVLD
IDGWDDPTHGDQEGSAFHGYGQHMYFPVLINE----AQSGFPLVCQLRRGNShPGKA
VAGILRWLFWRLKRAWPGVT-----IVLRADAGFSLPEILRVCERSGIHY
AIGFSSNAVLKRKISNV-LEQARLOYCRTQOKARL-----FDDVYAAATWDYPRRLV
MKAEYLPKGANPRFVLTD-MMLSPQQLYDTFYVQRGDSEHpIKELKRGIQADRLSCH
RFTANQFRLLLA-----QAAYLLMITLRXAAQ-GTELATAQVERLRICALI
KGAARVRVSVRRVLVELATFCPFEKEIRLIAQRLCDPMP"
/note="IS1380 e-value= 2.1e-64 complete sequence hit
coverage= 100%, between model(487 aa) positions 1; 487
length is 442aa with 47 gaps, 1 stops, absolute frame=
Minus3"

CDS complement(1504542..1503287)
/colour="255 0 0"
/evidence=predicted
/translation="LSSDVGILLAAQAESRIHICQDIADCIEEWRDPDKLTHSLPQLV
AQRVYQLIGGYEDANDSDSLRHDPIFKIACEYLPPIPESnVLASQLTISRLENQVTTDQ
TAAMRRQFIDRFIA-----SYPHPPSTIVLDIDGWDDPTHGDQEGSAFHGYGQHMYF
PVLIN-----AQSGFPLVCQLRRGNShPGKAVAGILRWLFWRLKRAWPGVT-----
-----IVLRADAGFSLPEILRVCERSGIHYAIGFSSNAVLKRKISNV-LEQARLOYC
RTQOKARL-----FDDVYAAATWDYPRRLVMKAEYLPKGANPRFVLTD-MMLSPQQL
YDTFYVQRGDSEHpIKELKRGIQADRLSCHRFTANQFRLLLA-----QA
AYLLMITLRXAAQ-GTELATAQVERLRICALIKGAARVRVSVRRVLVELATFCPFEKEI

RLIAQRLCDPMP"
 /note="IS1380 e-value= 1.5e-67 fragment hit coverage= 94.46%, between model(487 aa) positions 28; 487 length is 419aa with 43 gaps, 1 stops, absolute frame= Minus3"
 CDS complement(691935..690725)
 /colour="255 0 0"
 /evidence=predicted
 /translation="DELIGENPQPEdiLGESGLLKRLSKRLVERALAGELTHHLQOSS NDQS-GDeNSNGPRNSRNGYSKKTQVQSEQG-EMDLSIPDRCG-EFEPVLVPGQORRI A-GLDEKIIALYARGMTTRDIRAQLVELYG--ANISEALISDVINSVMEEVKDWRSRP LDEV--YPIVYLDALYVNIKVNGQVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAK FWLSVLTDLKNRGTQDILIAACDGLKGFPOAIESVYPQTVQVQVCIVHLIRNSLRHVPW KESRAVAADLKPIYQAATLE-ESEAALDAFAH-KWDETYPGISQIWIRHWDNVAPLFO YPMAIRKVIYTTNAIESLNRSLRKVIKTKAVFPNEESVYKLMFLAMRNISKR-WTRPI LNWKAAALSHFAILFPTRFNXYIH"
 /note="IS256 e-value= 3.8e-165 complete sequence hit coverage= 100%, between model(410 aa) positions 1; 410 length is 404aa with 11 gaps, 1 stops, absolute frame= Minus3"
 CDS complement(691935..690725)
 /colour="255 0 0"
 /evidence=predicted
 /translation="DELIGENPQPEdiLGESGLLKRLSKRLVERALAGELTHHLQOSS NDQS-GDeNSNGPRNSRNGYSKKTQVQSEQG-EMDLSIPDRCG-EFEPVLVPGQORRI A-GLDEKIIALYARGMTTRDIRAQLVELYG--ANISEALISDVINSVMEEVKDWRSRP LDEV--YPIVYLDALYVNIKVNGQVSKRAVYVALAVTVEGNKELLGLWIGAAerEGAK FWLSVLTDLKNRGTQDILIAACDGLKGFPOAIESVYPQTVQVQVCIVHLIRNSLRHVPW KESRAVAADLKPIYQAATLE-ESEAALDAFAH-KWDETYPGISQIWIRHWDNVAPLFO YPMAIRKVIYTTNAIESLNRSLRKVIKTKAVFPNEESVYKLMFLAMRNISKR-WTRPI LNWKAAALSHFAILFPTRFNXYIH"
 /note="IS256 e-value= 9.9e-166 complete sequence hit coverage= 100%, between model(410 aa) positions 1; 410 length is 404aa with 11 gaps, 1 stops, absolute frame= Minus3"
 CDS complement(558171..557924)
 /colour="255 0 0"
 /evidence=predicted
 /translation="MQCPLCGHPK-THKHGKTSKGSQRYRCPHCHQTFSS--ETFDTLH YRQISSEtiqtILQSHAEGSSLRGLSRITGVAYNTCVSVIR"
 /note="IS1_ORF1 e-value= 2.1e-12 fragment hit coverage= 34.31%, between model(239 aa) positions 6; 87 length is 83aa with 3 gaps, 0 stops, absolute frame= Minus3"
 CDS complement(483540..483299)
 /colour="255 0 0"
 /evidence=predicted
 /translation="VKLAELIPWESFESEYADQFSQ---TMGAPAKPFRVALGTLIIK EKLGISDAETVEQIRENPYLOQYFLGFSEYRESAPFDASML"
 /note="IS5_IS5 e-value= 2.6e-06 fragment hit coverage= 19.91%, between model(422 aa) positions 23; 106 length is 81aa with 3 gaps, 0 stops, absolute frame= Minus3"
 CDS complement(477669..477176)
 /colour="255 0 0"
 /evidence=predicted
 /translation="LEKTGIESKKKTYGYR--ERD--ETQR---QAFIERLQTKHP-- HQIVYVDEAGIDNRADYPY-GYCPVG-----QRFYD-LKSG-KRTERVSFIA ALKEGQL--FSPMTFEGSCNRLLEAWLQOSLI-SQLQLgdVIVIDNASFHHGQRIIE IVAEAG--CEIWYLPSPDLNKIERWWFVLKN"
 /note="IS630 e-value= 3e-16 fragment hit coverage= 50.80%, between model(376 aa) positions 140; 330 length is 165aa with 28 gaps, 0 stops, absolute frame= Minus3"

CDS complement(474207..474032)
/colour="255 0 0"
/evidence=predicted
/translation="GXHPiAQiCQVLNYPRSQVYYHARGQP-----DESELKAAIAGV
AGAYP-TYGYRRITAQLQ---RQG"
/note="IS3_IS150_ORF2 e-value= 2.1e-06 fragment hit
coverage= 17.48%, between model(389 aa) positions 103;
170 length is 59aa with 9 gaps, 1 stops, absolute frame=
Minus3"

CDS complement(474183..474032)
/colour="255 0 0"
/evidence=predicted
/translation="CQVLNYPRSQVYYHARGQPDESELKAAIAGVAGAYPTYGYRRIT
AQLQRQG"
/note="IS3_IS407_ORF2 e-value= 1.2e-07 fragment hit
coverage= 14.83%, between model(344 aa) positions 85;
135 length is 51aa with 0 gaps, 0 stops, absolute frame=
Minus3"

CDS complement(474147..474035)
/colour="255 0 0"
/evidence=predicted
/translation="YHARGQPDESELKAAIAGVAGAYPTYGYRRITAQLQRQ"
/note="IS3_IS2_ORF2 e-value= 9.4e-07 fragment hit
coverage= 12.25%, between model(302 aa) positions 48; 84
length is 38aa with 0 gaps, 0 stops, absolute frame=
Minus3"

CDS complement(472965..471914)
/colour="255 0 0"
/evidence=predicted
/translation="MSPLMMKTSVFE-----GLGLGTQPRTTISHEERLVLSGNlSN
XISVKFGTMDTTIMQGXiGtrpLTTEdRMLRQTHKXTQARTHQYRIhXKXRVFTGAK
-----AAIQSLAELTQMVE-----NHKG--NECDDSLTLKQSVYFI-----
-DCFSRLLXSKLK-----GYCVNHKRVARLMRQIGIMAKTKVK--RKRTTNSEHSfpRY
GNRVLNLS--IDHPEQVWVADITYIRLQ--QEFVYLAVVMDVFTRAIRGWHLsrHIDQq
LTLRALNKALERAT---PEIHHS-----DQGVQYAAAAYMQLLQHQVQISMAEVGQA
WQNGYAERLMRTIKEEEVD--LSDYRNfTEAYEHIEQFLEDVYMHKRIHSSLGYLTPC
EYEQQWRQO"
/note="IS3_IS150_ORF2 e-value= 4.3e-13 complete sequence
hit coverage= 100%, between model(389 aa) positions 1;
389 length is 351aa with 50 gaps, 5 stops, absolute
frame= Minus3"

CDS complement(472827..471917)
/colour="255 0 0"
/evidence=predicted
/translation="MDTTIMQGXiGTRpLTTEdRMLRQTHKXTQARTHQYRIHXLKXR
VFTGAKAAIQSLAELTQMVENhkgneCDDSLTLKQSVYFIDCFsRLLXSKlkGYCVNH
KRVARLMRQIGIMAKTKVK---RKRTTNSEHSF-PRYGNRVLNLSIDHPEQVWVADI
TYIRL--QEFVYLAVVMDVFTRAIRGWHLsrHIDQqLTLRALNKALER---ATPEI
HSDQGVQYAAAAYMQLLQHQVQISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYRN
FT--EAYEHIEQFLEDVYMHKRIHSSLGYLTPCEYEQQWRQO"
/note="IS3_IS150_ORF1 e-value= 6.7e-29 complete sequence
hit coverage= 100%, between model(306 aa) positions 1;
306 length is 304aa with 13 gaps, 5 stops, absolute
frame= Minus3"

CDS complement(472827..471890)
/colour="255 0 0"
/evidence=predicted
/translation="MDTTIMQGXl-----GTRPLTTEdRMLRQTHKXT---
QARTHQYRIHXLKXRVFTGAKA--AIQSLAELTQMVE-----NHKGNEC
DDSLTLKQSVYFI-----DCF-SRLLXSKL--KGYCVNHKRVARLMRQIGIMAKTKV-K

RKRTtensehsfprYGNRVLNLSIDHPEQVWVADITYIRLQ--QEFVYLAVVmDVFTRA
 IRGWHLSRHIDQQLTLRALNKALE-RATPEIHHSDOGVOYAAAAAYMQLLQHQVQISM
 AEVGQAWQNGYAERLMRTIKEEEVDLSDYRNFTEAYEHIEQFLEDVYMHKRIHSSSLGY
 LTPCEYEQQWRQNNHYCMNK"
 /note="IS3_IS407_ORF2 e-value= 9.2e-07 complete sequence
 hit coverage= 100%, between model(344 aa) positions 1;
 344 length is 313aa with 42 gaps, 5 stops, absolute
 frame= Minus3"
 CDS complement(472785..471890)
 /colour="255 0 0"
 /evidence=predicted
 /translation="LTTEDRmLRQTH-----KXTQARTHQYRIHXLKXRVFTGAKAA
 IQSLAELTQMVEN-HKGNECddsltlkqsVYFIDCFsRLLXSkLKGyCVNHKRVARLM
 RQIGIMAKTKVkrkrtTnSEHSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQOEFVY
 LAVVMDVFTRAIRGWHLsrHIDQQLT-LRALNKALERATPE-----IHHSDOGVOY
 AAAAYMQLLQHQVQISMAEVGQAWQNGYAERLMRTIKEEEVDL---S-DYRNFTEAY
 EHIEQFLEDVYMHKRIHSSSLGYLTPCEYEQQWRQNNHYCMNK"
 /note="IS3_IS51_ORF1 e-value= 2.6e-25 complete sequence
 hit coverage= 100%, between model(307 aa) positions 1;
 307 length is 299aa with 20 gaps, 4 stops, absolute
 frame= Minus3"
 CDS complement(472752..471881)
 /colour="255 0 0"
 /evidence=predicted
 /translation="HKXTQARTH-QYRIHXLKX-----RVFTGA---KAAIQSLAEL
 TQmVENHKGNECDDSL-----TLKQS-----VYFIDCFsRLLXsKLKGyCVNHKRVAR
 LMRQIGIMAKTKVkrkrtTnSEHSFPRYGNRVL-NLSIDHPEQVWVADITYIRLQOEF
 VYLAVVMDVFTRAIRGWHLsrHIDQQLTLRALNKALERATPE-----IHHSDOGVOY
 QYAAAAAYMQLLQHQVQISMAEVGQAWQNGYAERLMRTIKEEEVDLSDYrnFTEAYEH
 IEQFLEDV--YMHKRIHSSSLGYLTPCEYEQQWRQNNHYCMNKEDS"
 /note="IS3_IS51_ORF2 e-value= 1.6e-14 complete sequence
 hit coverage= 100%, between model(317 aa) positions 1;
 317 length is 291aa with 31 gaps, 3 stops, absolute
 frame= Minus3"
 CDS complement(472737..471908)
 /colour="255 0 0"
 /evidence=predicted
 /translation="ARTHQYRIHXLkXRVFT---GAKAAIQSLAELTQMVENHKGNE
 CDDSLTLKQSVYFIDCFsRLLXSkLKGyCVNHKRVARLMRQIGIMAKTKVkrkrtTnS
 EHSFPRY---GNRVLNLSIDHPEQVWVADITYIRLQOEFVYLAVVMDVFTRAIRGWHL
 SRHIDQQLTLRALNKALER----ATPE---IHHSDOGVOYAAAAAYMQLLQHQVQISM
 AEVGQAWQNGYAERLMRTIKEEEVDLSDYRNFTEAYEHIEQFLEDVYMHKRIHSSSLGY
 LTPCEYEQQWRQNN"
 /note="IS3_IS3_ORF2 e-value= 7.9e-44 complete sequence
 hit coverage= 100%, between model(288 aa) positions 1;
 288 length is 277aa with 14 gaps, 3 stops, absolute
 frame= Minus3"
 CDS complement(472722..471920)
 /colour="255 0 0"
 /evidence=predicted
 /translation="YRIHXLKXRVFTGAKAAIQSLAELT--QMVEN--HKG--NECDD
 SLTLKQSVYFID-----CFSRLLXSKL--KGyCVNHKRVARLMRQIGIMAKTKVkrkR
 TnSEHSfPRYGNRVLNLS-IDHPEQVWVADITYIRLQOEFVYLAVVMDVFTRAIRGW
 HLSRHIDQQLTLRALNKALERA-TPE--IHHSDOGVOYAAAAAYMQLLQHQVQISMAE
 VGQAWQNGYAERLMRTIK-EEVDL-SDYRNFTEAYEHIEQFLEDVYMHKRIHSSSLGY
 LTPCEYEQQWR"
 /note="IS3_IS3_ORF1 e-value= 1.8e-35 complete sequence
 hit coverage= 100%, between model(286 aa) positions 1;
 286 length is 268aa with 19 gaps, 3 stops, absolute
 frame= Minus3"

CDS complement(472551..471914)
/colour="255 0 0"
/evidence=predicted
/translation="SKLKGVCVNHKRVARLMRQIGIMAKTKVK-RKRTTNSEHSfprY
GNRVLNLS--IDHPEQVWVADITYIRLQ-QEFVYLAVVMDVFTRAIRGWHLRHRIDQO
LTLRALNKALERAT---PEIHHS-----DQGVQYAAAAYMQLLQOHQVQISMAEVGQA
WONGYAERLMRTIKEEEVD--LSDYRNFTEAYEHIEQFLEDVYMHKRIHSSLGYLTPC
EYEQQWRQ"
/note="IS3_IS150_ORF2 e-value= 3.3e-35 fragment hit
coverage= 57.58%, between model(389 aa) positions 166;
389 length is 213aa with 14 gaps, 0 stops, absolute
frame= Minus3"

CDS complement(472548..471917)
/colour="255 0 0"
/evidence=predicted
/translation="KLKGVCVNHKRVARLMRQIGIMAKTKVK----RKRTTNSEHSF-
PRYGNRvlnLSIDHPEQVWVADITYIRL--QEFVYLAVVMDVFTRAIRGWHLRHRID
QQLTLRALNKALER----ATPEIHHS DQGVQYAAAAYMQLLQOHQVQISMAEVGQAWQ
NGYAERLMRTIKEEEVDLSDYRNFTEAYEHIEQFLEDVYMHKRIHSSLGYLTPCEY
EQWRQ"
/note="IS3_IS150_ORF1 e-value= 2.3e-40 fragment hit
coverage= 72.55%, between model(306 aa) positions 85;
306 length is 211aa with 13 gaps, 0 stops, absolute
frame= Minus3"

CDS complement(472548..471920)
/colour="255 0 0"
/evidence=predicted
/translation="K-LKGVCVNHKRVARLMRQIGIMAKTKVKRKRTTNSEHSfPRYG
NRVLNLS-IDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGWHLRHRIDQQLTL
RALNKALERA-TPE--IHHS DQGVQYAAAAYMQLLQOHQVQISMAEVGQAWQNGYAER
LMRTIK-EEVDL-SDYRNFTEAYEHIEQFLEDVYMHKRIHSSLGYLTPCEYEQQWR"
/note="IS3_IS3_ORF1 e-value= 2.3e-45 fragment hit
coverage= 75.52%, between model(286 aa) positions 71;
286 length is 210aa with 7 gaps, 0 stops, absolute frame=
Minus3"

CDS complement(472539..471908)
/colour="255 0 0"
/evidence=predicted
/translation="GYCVNHKRVARLMRQIGIMAKTKVKRKRTTNSEHSFPRY---GN
RVLNLSIDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGWHLRHRIDQQLTLR
LNKALER----ATPE---IHHS DQGVQYAAAAYMQLLQOHQVQISMAEVGQAWQNGYA
ERLMRTIKEEEVDLSDYRNFTEAYEHIEQFLEDVYMHKRIHSSLGYLTPCEYEQQWRQ
QNN"
/note="IS3_IS3_ORF2 e-value= 7.7e-58 fragment hit
coverage= 76.74%, between model(288 aa) positions 68;
288 length is 211aa with 10 gaps, 0 stops, absolute
frame= Minus3"

CDS complement(472530..471890)
/colour="255 0 0"
/evidence=predicted
/translation="VNHKRVARLMRQIGIMAKTKVKRKRTTNSEHSFPRYGNRVL-NL
SIDHPEQVWVADITYIRLQQEFVYLAVVMDVFTRAIRGWHLRHRIDQQLT-LRALNKA
LERATPE-----IHHS DQGVQYAAAAYMQLLQOHQVQISMAEVGQAWQNGYAERLM
RTIKEEEVDL---S-DYRNFTEAYEHIEQFLEDVYMHKRIHSSLGYLTPCEYEQQWRQ
QNNHYCMNK"
/note="IS3_IS51_ORF1 e-value= 9.6e-44 fragment hit
coverage= 73.94%, between model(307 aa) positions 81;
307 length is 214aa with 13 gaps, 0 stops, absolute
frame= Minus3"

CDS complement(472518..471905)

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/colour="255 0 0"
/evidence=predicted
/translation="RVARLMRQIGIMAKTKVVKRRTTNSHSPFRYGNRVL-NLSIDH
PEQVWVADITYIRLQOEFVYLAVVMDVFTRAIRGWHLRSRHHIDQQLTLRALNKALERAT
PE-----IHHSDDQGVQYAAAAYMQLLQHQVQISMAEVEGQAWQNGYAERLMRTIK
EEEVDLSDYrnFTEAYEHIEQFLEDV--YMHKRIHSSLGYLTPCEYEQQWRQONNH"
/note="IS3_IS51_ORF2 e-value= 1.8e-35 fragment hit
coverage= 67.51%, between model( 317 aa) positions 96;
309 length is 205aa with 11 gaps, 0 stops, absolute
frame= Minus3"
CDS complement(470568..470162)
/colour="255 0 0"
/evidence=predicted
/translation="MSLVRPISTESLRLHRIYHSSRHHQVRQRAHCLILFAQGWPY
TLASLFSVSPKTVYNWLKAWNNRG---FAGLYNHPPGRGRKPMFNPDQQQIYEW-TQA
SPIQ-----LNQVLAQIEQQWSVRVSKATVKRVLKQMDMSWHR"
/note="IS630 e-value= 3.4e-15 fragment hit coverage=
39.63%, between model( 376 aa) positions 1; 149 length is
136aa with 13 gaps, 0 stops, absolute frame= Minus3"
CDS complement(470508..470171)
/colour="255 0 0"
/evidence=predicted
/translation="SSRHHQVRQRAHCLILFAQGWPYTLASLFSVSPKTVYNWLKAW
NNRGFAGLYNH---PGRGRKPMfNPDQQQIYEWTOASPIQLNQVLAQIEQQWSVR--
-VSKATVKRVLKQMDMS"
/note="IS481 e-value= 3.5e-09 fragment hit coverage=
33.62%, between model( 351 aa) positions 1; 118 length is
113aa with 6 gaps, 0 stops, absolute frame= Minus3"
CDS complement(260016..259754)
/colour="255 0 0"
/evidence=predicted
/translation="LFYFLMQCPLCGHPK-THKHGKTSKGSQRYRCPHCQQTFS-Etf
DTLCYRRQISPETIQITILQAHVEGSSLRGLSRITGVAYNTCVSVVR"
/note="IS1_ORF1 e-value= 1.7e-15 fragment hit coverage=
36.40%, between model( 239 aa) positions 1; 87 length is
88aa with 2 gaps, 0 stops, absolute frame= Minus3"
CDS complement(260016..259316)
/colour="255 0 0"
/evidence=predicted
/translation="LFYFLMQCPLCGHPK-THKHGKTSKGSQRYRCPHCQQTFS-Etf
DTLCYRRQISPETIQITILQAHVEGSSLRGLSRITGVAYNTCVSVVRS---SHKSQMI
HNGEVQAVAT---DVINADELWSFVKkskstVSRRSXGXATAGXHXVLRKRVVSCSVA
VLADIPTSLKnxLKILRAKPPVIIGK-----RMVKGTH-----DNYPMRSS
MKXVKPXPNAxsgpmascVSRPGVGIDDRINLA-KSGNRV"
/note="IS1_ORF1 e-value= 2.6e-07 complete sequence hit
coverage= 100%, between model( 239 aa) positions 1; 239
length is 234aa with 24 gaps, 7 stops, absolute frame=
Minus3"
CDS complement(220944..220250)
/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMIIsDIKRKSLPAIARAVGLENHQSLHHFLSESPWVAS
hLSDkRLDIILKILDGRRLILLID-----ETGDCKKKGKSTDYVVKR
QYIGNVGKKENGIvAVTAYGLFQGMILPLSFVYKPR-----ErLKEEDEYLSK
PQIAAGMIRQLQGMGFCFELVLADSLYGEAQTNFVNVLEELKLPYILAIRSNHAVWLP
AEQAVFAEPWQSFERTFSNGTTETRYrQEIIYGqrhhQKRY"
/note="IS4 e-value= 4.7e-14 fragment hit coverage=
51.23%, between model( 486 aa) positions 1; 249 length is
232aa with 27 gaps, 0 stops, absolute frame= Minus3"
CDS complement(220944..219818)

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/colour="255 0 0"
/evidence=predicted
/translation="FKHLHLGMIsDIKRKSLPAIARAVGLENHQSLHHFLSESPWVAS
hLSDkRLDIILKILDGRRLLILLID-----ETGDCKKGGKSTDYVKKR
QYIGNVGGKENGIVAVTAYGLFQGMILPLSFvEVYKPR-----ErLKEEDEYLSK
PQIAAGMIRQLQGMGFCFELVLADSLYGvEAOQTNFVNVLEELKLPYILAIRSNHAVWLP
AEQAVFAEPWQSFERTFSNGT-----TETRYR
QEIIYGQRHHQKRyWLLTTDPQTLPENSTS-----YVMAA
APE----IKLDEIGDCYGFRTWIEYGLKQSKD-TLGWADFRMTHYEQIEKWWEIVMSA
FLMVSLFADVFNDS-----CPVAHQHFAQHPwWDNQNG
WKNLLNNVR--LIIQPLIS----WNLLKRWLEVFPSRALKKGF"
/note="IS4 e-value= 9.9e-07 complete sequence hit
coverage= 100%, between model( 486 aa) positions 1; 486
length is 376aa with 117 gaps, 0 stops, absolute frame=
Minus3"
complement(127077..126635)
/colour="255 0 0"
/evidence=predicted
/translation="DYLIAVKRNQGRLYDHLQTYFeCLKPMeAETHS-----IQSRGR
EEHRCIQVYEPVGI---ALQEWeEAIRSVLCVQRWGTRQGKAY----HNTAYYISSAAT
SPHH---WQSLVREHWGIENRLHWPkKDVVFGEDDYRLEDEQALLNWSVLRTIVINILR
LNG"
/note="ISAs1 e-value= 2.4e-27 fragment hit coverage=
41.65%, between model( 389 aa) positions 198; 359 length
is 148aa with 15 gaps, 0 stops, absolute frame= Minus3"
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CDS

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