

Supplementary file 3*Stenotrophomonas maltophilia* K279a TnpPred annotation in genbank format (.gbk)

LOCUS NC_010943 0 bp DNA linear UNK
ACCESSION unknown
COMMENT This looks like a good IS fragment prediction
FEATURES Location/Qualifiers
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/mol_type="genomic DNA"
/organism="Stenotrophomonas maltophilia K279a"
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LRRLVDPDLIA-----
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KNIGA-----LKGVGPILISTLACELP-ELGSLGSK-AIASLVGLAPMNRESG-TWO
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-----MKQRHIAQLSSDLKQLDKAIAEQLEGQPGW
KNIGA-----LKGVGPILISTLACELP-ELGSLGSK-AIASLVGLAPMNRESG-TWO
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-----LGNFQRPGRHTDAKRRGNAAGGGWGYVHVAIDDHSRVAFFSSVHPNEQAETACQ
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CDS 572224..573165
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NGKAERFIQTSLREWAYARE---YASSDQRNSVLTQWLHHYNWHRPHM--GIGGQPPI
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frame= Plus1"

CDS 572845..573111
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frame= Plus1"

CDS 573040..573108
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/evidence=predicted
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frame= Plus1"

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TLELA---NOGHRTNHKRVQRLMGEMGLKSRVRVK-RYRSFKGAANVVVGNDLNQFQH
AERPQWKVTDVTEFKVQ-GMKLYLSPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAI
MKLSPDERPMIHS----DOGWQYOHENYRHMLEKHSLKQSMSRRGNCLDNAAMESFF
GTLKSEFFY--LNSFDSIESLEAGLVEYIQQYNNQERIKLKLKGKGLSPVEYreRAQSAAX
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stops, frame= Plus1"

CDS 850624..851523
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MGEMGLKSRVRVK---RYRSFKGAANVVVGNDLNQFHAERPNQKWVTDVTEFKV--Q
GMKLYLSPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAIMK-LSPDERPMIHSQGWQ
YQHENYRHMLEKHSLKQSMSRRGNCLDNAAMESFFGTLKSEFFYLNSFDSIE--SLEA
GLVEYIQQYNNQE-RIKLKLKGKGLSPVEYRERAQS"
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frame= Plus1"

CDS 850624..851523
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GMKLYLSPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAIMK-LSPDERPMIHSQGWQ
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 GLVEYIQQYNNQE-RIKLKLKGLSPVEYRERAQS"
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 frame= Plus1"
 CDS 850672..851532
 /colour="255 0 0"
 /evidence=predicted
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 VK-RYRSFKGAANVVVGNDLNQFHAERPNQKWVTDVTEFKVQ-GMKLYLSPIMDLYN
 GEIVAYQIKRQPVFDLVGQMLEEAIMKLSPDERPMIHS----DQGWQYQHENYRHML
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 frame= Plus1"
 CDS 850681..851553
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 /evidence=predicted
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 RYRSFKGAANVVVG-NDLNQFHAERPNQKWVTDVTEFKV-QGmKLYLSPIMDLYNGE
 IVAYQIKRQPVFDLV-GQMLEEAIMKSPDE----RPMIHSQGWQYQHENYRHMLEK
 HSLQSMSRRGNCLDNAAMESFFGTLKSEFFY---NSFDSIESLEAGLVEYIQQYN
 Q-ERIKLKLKGLSPVEYrERAQSAAxPRPSLGG"
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 /evidence=predicted
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 SPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAIMKSPD----ERPMIHSQGWQYQ
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 /evidence=predicted
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 QIKRQPVFDLVGQMLEEAIMKLSPDERPMIHSQGWQYQHENYRHMLEKHSLKQSMSR
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 LSPVEYRERAQ"
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 frame= Plus1"
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 VVVG-NDLNQRFHAER--PNQKWTDVTEFKVQGMKLYLSPIMDLYNGEIVAYQIKRQ
 PVFDLVGQMLEEAIMK----LSPDERPMIHSDQGWQYQHENYRHMLEKHSLKQSMSRR
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 PVFDLVGQMLEEAIMK----LSPDERPMIHSDQGWQYQHENYRHMLEKHSLKQSMSRR
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 frame= Plus1"
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 LSPIMDLYNGEIVAYQIKRQPVFDLV-GQMLEEAIMKLSPE----RPMIHSDQGWQY
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 LSPVEY"
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 frame= Plus1"
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 /evidence=predicted
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 frame= Plus1"
 CDS 851359..851466
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 /evidence=predicted
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 /note="IS481 e-value= 3.8e-07 fragment hit coverage= 11.11%, length is 36aa with 3 gaps, 0 stops, frame= Plus1"
 CDS 1150204..1150311
 /colour="255 0 0"

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Plus1"
CDS 1150204..1150311
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QQEMVTDRELRRQMQG-----
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KS-----MKGVGPAQAVLASYLP-ELGQISGK-AIASLGVVAPISHDSG-AMR
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QQEMVTDRELRRQMQG-----
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KS-----MKGVGPAQAVLASYLP-ELGQISGK-AIASLGVVAPISHDSG-AMR
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WRRKPSPGLLLHS----DQGTQFTSEDWQSFREHDIVCSMSRRGNCHDNAAMESFF
QLLKRERIK--RRIYSNHDEARADVFQYIEmFYNPKRHHSSNDGLSPVEFEKQYALN"
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YYAWLKePASARDKDDQRLGLIKHSWLESGSVYGHRKVTTDLRELGETCSRHRVARL
MKSEGLRAMVGYGR--RPRPLSGPGVGSVAKNVLARGFKVSEPNRAWTDITYIRT--Y
DGFLYLAJVVLDFSRQVVGWATRPTQHTDLVLQALLAAVWR-RKPSPGLLLHSDQGTQ

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FTSEDWQSFRLREHDIVCSMSRRGNCHDNAAMESFFQLLKRERIKRRIYSNHD--EARA
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 TYDG-FLYLVAVVLDLFSRQVVGWATRPTQ---HTDLVLQALLAAVWRR----KPSPG
 LH-SDQGTQFTSEDWQSFRLREHDIVCSMSRRGNCHDNAAMESFFQLLKRERIKRRIYS
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 LDLFSRQVVGWATRPTQHTDLVLQALLAAVWRR-RKPSGPLLHSDQGTQFTSEDWQSF
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 frame= Plus1"
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 AVVLDLFSRQVVGWATRPTQHTDLVLQALLAAVWRRKPS-----PGLLLHSDQGTQFT
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VGWATRPTQHTDLV-LQALLAAVWRRKPSP----GLLLHSDQGTQFTSEDWQSFLREH
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stops, frame= Plus1"
CDS
1896730..1897575
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frame= Plus1"
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RRGNCHDNAAMESFFQOLLK--RERIKRRIYSNHDEARADVFOYIEMFYNPKRRHSSND
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frame= Plus1"
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TQHTDLVLQALLAAVWR---RKPSGPLLLHSDQGTQFTSEDWQSFLREHDIVCSMSR
RGNCHDNAAMESFFQOLLKRERIKRRIYSNHDEARADVFOYIEMFYNPKRRHSSNDGLS
PVEFEKQYALNGX"
/note="IS3_IS3_ORF2      e-value= 7.1e-102 complete
sequence
hit coverage= 100%, length is 282aa with 7 gaps, 1 stops,
frame= Plus1"
CDS
1896742..1897587
/colour="255 0 0"
/evidence=predicted
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KHSWLESGSVYGHRKVTTDLRELGETCSRHRVARLMKSEGLRAMVGYGRRPPLSGPV
GSVAK-NVLARGFKVSE--PNRAVTDITYIRTYDGFLYLAVVLDLFSRQVVGWATRP
TQHTDLVLQALLAAVWR---RKPSGPLLLHSDQGTQFTSEDWQSFLREHDIVCSMSR
RGNCHDNAAMESFFQOLLKRERIKRRIYSNHDEARADVFOYIEMFYNPKRRHSSNDGLS
PVEFEKQYALNGX"
/note="IS3_IS3_ORF2      e-value= 2e-102 complete sequence
hit
coverage= 100%, length is 282aa with 7 gaps, 1 stops,
frame= Plus1"
CDS
1896754..1897581
/colour="255 0 0"
/evidence=predicted

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/colour="255 0 0"
/evidence=predicted
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AKTDRLDALVLAQMA--ALVELPSYQPLEPW---QRKLREFVRARRQTMQALTVARQ
QQEMVTDRELRRQMQG-----
-----NIIRLQTLVERLGKQISEQVAQ-QPQLAVL
KS-----MKGVGPALQAVLASYLP-ELGQISGK-AIASLVGVAPISHDSG-AMR
GRRSIHG-GRAEIRQVLYMAAMSAMRHEPRLRDFYRSLRARGK--EGKVAIVAVMRK
MLVILNARVRD"
/note="IS110 e-value= 1e-48 fragment hit coverage=
96.88%, length is 295aa with 108 gaps, 0 stops, frame=
Plus1"
CDS
2448280..2449305
/colour="255 0 0"
/evidence=predicted
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RTGLRERRHQGCVAKVVTAPARRLLVRSMVEKGLSERRALTVVVRMSASALRYEPRPD
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KKVPVSERQPLLRPSAANEVWSMDFVFERTAEGRVVKCLTIVDDATHEAVAIEVERAI
SGQGVSRVLDRLAMQRLPDRVIRTDNGKEFCGKAMVAWAHEKEVALRLIEPGKPNQNA
YIESFNGRLRDECLNEHWFTLLHARTSIESWRRDYNEERPKRALGGLTPAQYAAQLA
AKNDNISTGL"
/note="IS3_IS407_ORF2      e-value= 2.1e-202 complete
sequence
hit coverage= 100%, length is 342aa with 2 gaps, 0 stops,
frame= Plus1"
CDS
2448280..2449305
/colour="255 0 0"
/evidence=predicted
/translation="LPPAWLQRGLVLPVAQQVRRHERARRQAAQGSGGGEHTPEEAAG
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KKVPVSERQPLLRPSAANEVWSMDFVFERTAEGRVVKCLTIVDDATHEAVAIEVERAI
SGQGVSRVLDRLAMQRLPDRVIRTDNGKEFCGKAMVAWAHEKEVALRLIEPGKPNQNA
YIESFNGRLRDECLNEHWFTLLHARTSIESWRRDYNEERPKRALGGLTPAQYAAQLA
AKNDNISTGL"
/note="IS3_IS407_ORF2      e-value= 5.4e-203 complete
sequence
hit coverage= 100%, length is 342aa with 2 gaps, 0 stops,
frame= Plus1"
CDS
2448421..2449278
/colour="255 0 0"
/evidence=predicted
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VVKCLTIVDDATHEAVAIEVERAISGQGVSRVLDRLAMQ-RGLPR--VIRTDNGKEFC
GKAMVAWAHEKEVALRLIEPGKPNQNAJIESFNGRLRDECLNEHWFTLL--HARTSI
ESWRRDYNEE-RPKRALGGLTPAQYAAQLAA"
/note="IS3_IS150_ORF1      e-value= 6.2e-15 complete sequence
hit coverage= 100%, length is 286aa with 21 gaps, 0
stops, frame= Plus1"
CDS
2448460..2448705
/colour="255 0 0"
/evidence=predicted
/translation="VVTAPARRLLVRSMVE-KGLSERRALTVVVRMSASALR-YEPR-P
DNNVELREQIAALAHRHRRYGVGMIHLKLR-QKGLVVNYKRV"
/note="IS3_IS407_ORF1      e-value= 1.1e-17 complete sequence
hit coverage= 100%, length is 82aa with 4 gaps, 0 stops,

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frame= Plus1"
CDS 2448460..2448705
/colour="255 0 0"
/evidence=predicted
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DNNVELREQIAALAHRHRRYGVGMIHLKLR-QKGLVVNYKRV"
/note="IS3_IS407_ORF1      e-value= 8.5e-17 complete sequence
hit coverage= 100%, length is 82aa with 4 gaps, 0 stops,
frame= Plus1"
CDS 2448481..2449275
/colour="255 0 0"
/evidence=predicted
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ELREQIAALAHRHRRYGVGMIHLKLR-QKGLVVNYKRVVERLYQEAGLQVRRRKRV
PVSERQPLLR-----PSAANEVWSMDFVFERTAEGRVVVKC1TIVDDATHEAV
AIEVERAISGQGVSRVLDRLLAMQRGLPR--VIRTDNGKEFCGKAMVAWAHEKEVALRI
IEPGKPNQNAIESFNGLRDECLNEH--WFPTLLHARTSIESWRR-DYNEERPKRAL
GGLTPAQYAAQLA"
/note="IS3_IS3_ORF1      e-value= 8.7e-09 complete sequence
hit coverage= 100%, length is 265aa with 24 gaps, 0
stops, frame= Plus1"
CDS 2448502..2449278
/colour="255 0 0"
/evidence=predicted
/translation="VEKGLSERRALTVVMSASALRYEP-RPDNNVELREQIA-ALAH
RHRRYGVGMIHLKLRQKGLVVNYKRVVERLYQEAGLQVRRRK-----KPVSE-
---RQPLLRPSAANEVWSMDFVFERT-AEGRVVVKCLTIVDDATHEAVAIEVERAISGQ
GVSRVLDRLLAMQ-RGLPR--VIRTDNGKEFCGKAMVAWAHEKEVALRIIEPGKPNQNA
YIESFNGLRDECLNEHWFPTLL--HARTSIESWRRDYNEE-RPKRALGGLTPAQYAA
QLAA"
/note="IS3_IS150_ORF1      e-value= 4.2e-17 fragment hit
coverage= 91.50%, length is 259aa with 21 gaps, 0 stops,
frame= Plus1"
CDS 2449078..2449281
/colour="255 0 0"
/evidence=predicted
/translation="PGKPNQNAIESFNGLRDECLN--EHWFPTLLHARTSIESWRR
DYNEERPKRALGGLTPAQYAAQLAAK"
/note="IS3_IS150_ORF2      e-value= 2.9e-08 fragment hit
coverage= 17.99%, length is 68aa with 2 gaps, 0 stops,
frame= Plus1"
CDS 2449081..2449260
/colour="255 0 0"
/evidence=predicted
/translation="GKPNQNAIESFNGLRDECLNEHWFPTLLHARTSIESWRRDY-
NEERPKRALGGLTPAQY"
/note="IS3_IS3_ORF2      e-value= 6.9e-07 fragment hit
coverage= 21.18%, length is 60aa with 1 gaps, 0 stops,
frame= Plus1"
CDS 2449096..2449275
/colour="255 0 0"
/evidence=predicted
/translation="NAYIESFNGLRDECLNEH--WFPTLLHARTSIESWRR-DYNEE
RPKRALGGLTPAQYAAQLA"
/note="IS3_IS3_ORF1      e-value= 2.9e-08 fragment hit
coverage= 22.03%, length is 60aa with 3 gaps, 0 stops,
frame= Plus1"
CDS 2494939..2495808
/colour="255 0 0"
/evidence=predicted
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-----MKQRHIAQLSDDLKQLDKAIAEQLEGQPGW
KNIGA-----LKGVPILISTLACELP-ELGSLGSK-AIASLVGLAPMNRESG-TWO
GQRRI SG-GRAVVREALYMAALTAIRYEPLR AFYAGLKAKGK---ASKVALVAVMRK
MLVILNAR"
/note="IS110 e-value= 1.4e-51 fragment hit coverage=
96.15%, length is 292aa with 108 gaps, 0 stops, frame=
Plus2"
CDS 2371592..2372530
/colour="255 0 0"
/evidence=predicted
/translation="FGIGIDVSKATLDVAVHGEQ-----FRQFSNDKRGFVRLIRWL
KTWP-----IKQV VLEASGGYERAALDVLHAA---GLPMVRINPARARRFAQGT-GRA
AKTDRLDATVLAQMAHLLPLTRYVP--PAPW---QORLAEFAQCRRQLVQMRVSEMQR
LRLVDPDLIA-----
-----MKQRHIAQLSDDLKQLDKAIAEQLEGQPGW
KNIGA-----LKGVPILISTLACELP-ELGSLGSK-AIASLVGLAPMNRESG-TWO
GQRRI SG-GRAVVREALYMAALTAIRYEPLR AFYAGLKAKGK---ASKVALVAVMRK
MLVILNARkrdaeVALGCPXQDSCYFSAS"
/note="IS110 e-value= 1.7e-49 complete sequence hit
coverage= 100%, length is 313aa with 108 gaps, 1 stops,
frame= Plus2"
CDS 2448206..2448475
/colour="255 0 0"
/evidence=predicted
/translation="KKRFSEEQIIGFLREAESG-----MPIKDL CR
QHGFSEASYYLWRSKFGMSVPDAKRHKDLEAENTRLKKLLAEQVFENDVIKDALKK
WXPR-R"
/note="IS3_IS150_ORF1 e-value= 1.8e-12 fragment hit
coverage= 35.29%, length is 90aa with 18 gaps, 1 stops,
frame= Plus2"
CDS 2448206..2448463
/colour="255 0 0"
/evidence=predicted
/translation="KKRFSEEQIIGFLREAESGMPIKDL CRQHGFSEASYYLWRSKFG
GMSVPDAKRHKDLEAENTRLKKLLAEQVFENDVIKDALKK
/note="IS3_IS407_ORF1 e-value= 3.2e-46 complete sequence
hit coverage= 100%, length is 86aa with 0 gaps, 0 stops,
frame= Plus2"
CDS 2448206..2448463
/colour="255 0 0"
/evidence=predicted
/translation="KKRFSEEQIIGFLREAESGMPIKDL CRQHGFSEASYYLWRSKFG
GMSVPDAKRHKDLEAENTRLKKLLAEQVFENDVIKDALKK
/note="IS3_IS407_ORF1 e-value= 8.1e-47 complete sequence
hit coverage= 100%, length is 86aa with 0 gaps, 0 stops,
frame= Plus2"
CDS 2756306..2757181
/colour="255 0 0"
/evidence=predicted
/translation="FGIGIDVSKATLDVAVHGEQ-----FRQFSNDKRGFVRLIRWL
KTWP-----IKQV VLEASGGYERAALDVLHAA---GLPMVRINPARARRFAQGT-GRA
AKTDRLDATVLAQMAHLLPLTRYVP--PAPW---QORLAEFAQCRRQLVQMRVSEMQR
LRLVDPDLIA-----
-----MKQRHIAQLSDDLKQLDKAIAEQLEGQPGW
KNIGA-----LKGVPILISTLACELP-ELGSLGSK-AIASLVGLAPMNRESG-TWO
GQRRI SG-GRAVVREALYMAALTAIRYEPLR AFYAGLKAKGK---ASKVALVAVMRK
MLVILNAR"
/note="IS110 e-value= 1.4e-51 fragment hit coverage=
96.15%, length is 292aa with 108 gaps, 0 stops, frame=
Plus2"

CDS 2756306..2757214
/colour="255 0 0"
/evidence=predicted
/translation="FGIGIDVSKATLDVAHVGEQ-----FRQFSNDKRGFVRLIRWL
KTWP-----IKQVVLEASGGYERAALDVLHAA---GLPMVRINPARARRFAQGT-GRA
AKTDRLDATVLAQMAHLLPLTRYVP--PAPW---QRALAEFAQCRRQLVQMRVSEMQR
LRRLVDPDLIA-----
-----MKQRHIAQLSSDLKQLDKAIAEOLEGQPGW
KNIGA-----LKGVGPILISTLACELP-ELGSLGSK-AIASLVGLAPMNRESG-TWO
GQRRIISG-GRAVVREALYMAALTAIRYEPRRLAFYAGLKAKGK---ASKVALVAVMRK
MLVILNARKR-----DAEVALSCP"
/note="IS110 e-value= 3.1e-48 complete sequence hit
coverage= 100%, length is 303aa with 113 gaps, 0 stops,
frame= Plus2"

CDS 3087821..3088948
/colour="255 0 0"
/evidence=predicted
/translation="---QAMRSVHVEAKEvQRRVQAWCggAGKPGCELPGSPGAGn
pgyVTDTLEAXGAGSGVSRICWRDAPGRGACAVEARTSPGE-EGAGFFARSGDv1cq
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EDSRGTLGAGRMQEDLA---DAGHSLSLNRVARLMAADGLQGWPRPK----RRGQQG
RPAltpgvRNRLERDFSALEPETKWVTDITEIKTQ-QSKLYLCIVLDLFDQRVVGWS
MOHRODRQMVIRAVQMAWVOROESYEVILHS-----DRGTQFRSGDYQRYLAANSV
SMSAVGHCGDNAACEGFFGLLKRERIY--RTSYPTLDAARADVFDYIE---RRHNPR
M-----RRVARQ"
/note="IS3_IS150_ORF2 e-value= 7.4e-24 complete sequence
hit coverage= 100%, length is 376aa with 32 gaps, 1
stops, frame= Plus2"

CDS 3088076..3088975
/colour="255 0 0"
/evidence=predicted
/translation="AGFFARSGDVLCQgIILRYQVIERCRDEFPVRLMCRCLKVsASG
YYDWSKRLPSAGQLENQRLLDQIRALHEDSRGTLGAGRMQEDLAADAGHSLSLNRVARL
MAADGLQG-WPRPK--RRGQQGRPALTLPgvrRNRLERDFSALEPETKWVTDITEIKT
-QQSKLYLCIVLDLFDQRVVGWSMOHRQDRQMVIRAVQMAWQ-RQESYEVILHSDRG
TQFRSGDYQRYLAANSLVCSMSAVGHCGDNAACEGFFGLLKRERIYRTSYPTLD--AA
RADVFDFYIERRHNP---RMRRRVARQDQKVAALE"
/note="IS3_IS150_ORF1 e-value= 6e-28 complete sequence
hit coverage= 100%, length is 300aa with 11 gaps, 0
stops, frame= Plus2"

CDS 3088112..3089023
/colour="255 0 0"
/evidence=predicted
/translation="QGIILRYQVIERCRD--EFPVRLMCRCLKVs---ASGYWDWSKR
LPSAGQLENQRLLDQIRALHEDSRG----TIGAGRMQEDLAADAGHSLSLNRVARLMA
ADGLQGW--PRPKRRGQQGRPALTLPgvrRNRLERDFSALEPETKWVTDITEIKTQOSK
LYLCIVLDLFDQRVVGWSMOHRQDRQMVIRAVQMAWQRES----YEVILHSDRG
QFRSGDYQRYLAANSLVCSMSAVGHCGDNAACEGFFGLLKRERIYRTSYPTLDARAD
VFDYIERRHNPrRRRVARQDQKVAALEPSVISGXNPIVPSAAX"
/note="IS3_IS51_ORF2 e-value= 9.2e-49 complete sequence
hit coverage= 100%, length is 304aa with 17 gaps, 2
stops, frame= Plus2"

CDS 3088130..3088909
/colour="255 0 0"
/evidence=predicted
/translation="YQVIERCRDEFPVRLMCRCLKVsASGYWDWS-----KRLPSAGO
LENQRLLDQIRALHEDSRGTLGAGRMQEDLAADAGHSLSLNRVARLMAADGLQGWPRPK
RRgQQGRPALTLPgvrRNRLERDFSALEPETKWVTDITEIKTQOSKLYLCIVLDLFDQR
VVGWSMOHRQDRQMV-IRAVQMAWQRESY---EVILHSDRGTFRSGDYQRYLA
NSLVCSMSAVGHCGDNAACEGFFGLLKRERIYR---TSYPTLDAARADVFDYIER"

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/note="IS3_IS51_ORF1      e-value= 3.8e-62 fragment hit
coverage= 88.93%, length is 260aa with 14 gaps, 0 stops,
frame= Plus2"
CDS
3088130..3089008
/colour="255 0 0"
/evidence=predicted
/translation="YQVIERCRDEFPVRLMCRCLKVSASGYYDWS----KRLPSAGO
LENQRLLDQIRALHEDSRGTLGAGRMQEDLADAGHSLSLNRVARLMAADGLQGWPRPK
RRgQQGRPALTLPGVNRLERDFSALEPETKWVTDITEIKTQQSKLYLCIVLDLFQDR
VVGWMSMQHRQDRQMV-IRAVQMAVWQRQESY---EVILHSDRGTQFRSGDYQRYLA
NSLVCSMSAVGHCGDNAACEGFFGLLKRERIYR---TSYPTLDAARADVFDYIERRH
NprMRRRVARQDQKVAALE---PSVISGXNPIV"
/note="IS3_IS51_ORF1      e-value= 1.3e-54 complete sequence
hit coverage= 100%, length is 293aa with 17 gaps, 1
stops, frame= Plus2"
CDS
3088133..3088906
/colour="255 0 0"
/evidence=predicted
/translation="QVIERCRDEFPVRLMCRCLKVSASGYYDWSKRLPSAGQLENQRL
LDQIRALHEDSRGTLGAGRMQEDLA---DAGHSLSLNRVARLMAADGLQGWPRPK---
---RRGQQGRPA1t1pgvRNRLERDFSALEPETKWVTDITEIKTQ-QSKLYLCIVLDLF
DQRVVGWMSMQHRQDRQMVIRAVQMAVWQRQESYEVLHS----DRGTQFRSGDYQRY
LAANSLVCSMSAVGHCGDNAACEGFFGLLKRERIY--RTSYPTLDAARADVFDYIE"
/note="IS3_IS150_ORF2      e-value= 4.1e-56 fragment hit
coverage= 68.89%, length is 258aa with 16 gaps, 0 stops,
frame= Plus2"
CDS
3088133..3088906
/colour="255 0 0"
/evidence=predicted
/translation="QVIERCRDEFPVRLMCRCLKVSASGYYDWSKR--LPSAGOLENO
RLLDQIRALHEDSRGTLGAGRMQEDLA-DAGHSLSLNRVARLMAADGLQGWPRPKRRG
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WSMQHRQDRQMVIRAVQMAVWQRQESYEVLHSDRGTQFRSGDYQRYLAANSLVCSMS
AVGHCGDNAACEGFFGLLK--RERIYRTSYPTLDAARADVFDYIE"
/note="IS3_IS3_ORF1      e-value= 8e-71 fragment hit
coverage=
91.26%, length is 258aa with 5 gaps, 0 stops, frame=
Plus2"
CDS
3088133..3088966
/colour="255 0 0"
/evidence=predicted
/translation="QVIERCRDEFPVRLMCRCLKVSASGYYDWSKR--LPSAGOLENO
RLLDQIRALHEDSRGTLGAGRMQEDLA-DAGHSLSLNRVARLMAADGLQGWPRPKRRG
QQGRpALT1PGVRNRLERDFSALEPETKWVTDITEIKTQQSKLYLCIVLDLFQRVVVG
WSMQHRQDRQMVIRAVQMAVWQRQESYEVLHSDRGTQFRSGDYQRYLAANSLVCSMS
AVGHCGDNAACEGFFGLLK--RERIYRTSYPTLDAARADVFDYIE
----RQDQKVAA"
/note="IS3_IS3_ORF1      e-value= 1.3e-67 complete sequence
hit coverage= 100%, length is 278aa with 10 gaps, 0
stops, frame= Plus2"
CDS
3088145..3088906
/colour="255 0 0"
/evidence=predicted
/translation="RCRDEFPVRLMCRCLKVSASGYYDWSKRLPSAGQLENQRLLDQI
RALHEDSRGTLGAGRMQEDLADAGHSLSLNRVARLMAADGLQGWPRPKRRGQQGR--P
ALTLPGvrNRLERDFSALE--PETKWVTDITEIKTQQSKLYLCIVLDLFQRVVGWSM
QHRQDRQMVIRAVQMAVWQ---RQESYEVLHSDRGTQFRSGDYQRYLAANSLVCSMS
SAVGHCGDNAACEGFFGLLKRERIYRTSYPTLDAARADVFDYIE"
/note="IS3_IS3_ORF2      e-value= 4.4e-65 fragment hit
coverage= 89.93%, length is 254aa with 8 gaps, 0 stops,

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frame= Plus2"
CDS 3088145..3088963
/colour="255 0 0"
/evidence=predicted
/translation="RCRDEFPVRLMCRCLKVSASGYWDWSKRLPSAGQLENQRLLDQI
RALHEDSRGTLGAGRMQEDLADAGHSLSLNRVARLMAADGLQGWPRPKRRGQQGR--P
ALTLPGvRNRLERDFSALE--PETKWVDITEIKTQOSKLYLCIVLDLFQDRVVGWSM
QHRQDRQMVIRAVQMAWQO---RQESEVILHSDRGTOFRSGDYQRYLAANSLVCSM
SAVGHCGDNAACEGFFGLLKRERIYRTSYPTLDAARADVFDYIERRHNpRMRRVA--
-----RQDQKVA"
/note="IS3_IS3_ORF2      e-value= 9.6e-61 complete sequence
hit coverage= 100%, length is 273aa with 19 gaps, 0
stops, frame= Plus2"
CDS 3088166..3088921
/colour="255 0 0"
/evidence=predicted
/translation="VRLMCRCLKVS---ASGYWDWSKRLPSAGQLENQRLLDQIRALH
EDSRG----TIGAGRMQEDLADAGHSLSLNRVARLMAADGLQGW--PRPKRRGQQGR
PALTLPGvRNRLERDFSALEPETKWVDITEIKTQOSKLYLCIVLDLFQDRVVGWSM
QHRQDRQMVIRAVQMAWQRES----YEVILHSDRGTOFRSGDYQRYLAANSLVCSM
SAVGHCGDNAACEGFFGLLKRERIYRTSYPTLDAARADVFDYIERRHNp"
/note="IS3_IS51_ORF2      e-value= 3.9e-65 fragment hit
coverage= 83.28%, length is 252aa with 15 gaps, 0 stops,
frame= Plus2"
CDS 3088184..3088906
/colour="255 0 0"
/evidence=predicted
/translation="CLKVSASGYWDWSKRLPSAGQLENQRLLDQIRALHEDSRGTLGA
GRMQEDLADAGHSLSLNRVARLMAADGLQG-WPRPK--RRGQQGRPALTLPgVRNRLE
RDFSALEPETKWVDITEIKT--QOSKLYLCIVLDLFQDRVVGWSMQHRQDRQMVIRA
VQMAWQ-RQESEVILHSDRGTOFRSGDYQRYLAANSLVCSMSAVGHCGDNAACEGF
FGLLKRERIYRTSYPTLD--AARADVFDYIE"
/note="IS3_IS150_ORF1      e-value= 7.6e-35 fragment hit
coverage= 80.39%, length is 241aa with 8 gaps, 0 stops,
frame= Plus2"
CDS 3595427..3596512
/colour="255 0 0"
/evidence=predicted
/translation="MAAAVCSRrcpSVGTASAAAPKADEKDpFVQAA--XGNEPRXAA
QGSRLSACGDR1PKKtRCLDPGRAGGARRKaqAIQGLRQVHTLSLL--LEAAELSRST
FYYQnhvlAHPDQDEAACERIRAIYdQSQGRGYRTVTLELANQGHRTNHKRVQRLM
GEMGLKSRVVRV-KRYRSFKGAANVVgndlqrqfhAERPQKW---VTDVTeFkVQG
MKLYLSPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAIKK-LSPDerpMIHSDQGWQY
QHENYRHMLEKHSKQSMSRRGNCLDNAAMESFFGTLKSEF--FYLnsFDSIESLEAG
LVEYIQYYNQERIKLKLKGKGLSPVEYRERAQSAAAXPRPSLG"
/note="IS3_IS407_ORF2      e-value= 7.1e-09 complete sequence
hit coverage= 100%, length is 362aa with 12 gaps, 3
stops, frame= Plus2"
CDS 3595433..3596494
/colour="255 0 0"
/evidence=predicted
/translation="AAVCSRRCPS-----VGTASAAAPKAD---EKDPFVQAAAXGN
EPRXAAQGS----RLSACGD---RLPKKTRCLDPG-----RAGGARRKAQAIQGLR
QVHTLSLLLEAAELSRSTFYYQNHVL--AHPDQDEAACERIRAIYdQSQGRGYRTV
TLELA---NQGHRTNHKRVQRLMGEMGLKSRVVRV-KYRSFKGAANVVGVNDLNQFH
AERPQKQWVTDVTEFKVQ-GMKLYLSPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAI
KKLSPDERPMIHS----DOGWQYQHENYRHMLEKHSKQSMSRRGNCLDNAAMESFF
GTLKSEFFY--LNSFDSIESLEAGLVEYIQYYNQERIKLKLKGKGLSPVEYreRAQSAA
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sequence          /note="IS3_IS150_ORF2      e-value= 2.1e-122 complete
hit coverage= 100%, length is 354aa with 38 gaps, 3
stops, frame= Plus2"
CDS              3595586..3596485
/colour="255 0 0"
/evidence=predicted
/translation="LPKKTRCLDPGRAggARRKAQAIQGLRQVHTLSLLLEAAELSRS
TFYYQNHVLAHPDqDEAACERIRAIYDQSQGRGYRTVTLELANQGHRTNKHKRVQRL
MGEMGLKSRVRVK---RYRSFKGAANVVVGNDLNQFHAEERPQKWVTDVTEFKV--Q
GMKLYLSPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAIKK-LSPDERPMIHSDQGWQ
YQHENYRHMLEKHSRKQSMSRRGNCLDNAAMESFFGTLKSEFFYLNSFDSIE--SLEA
GLVEYIQQYNQE-RIKLKLKGLSPVEYRERAQS"
/note="IS3_IS150_ORF1      e-value= 1.9e-87 complete sequence
hit coverage= 100%, length is 300aa with 9 gaps, 0 stops,
frame= Plus2"
CDS              3595586..3596485
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MGEMGLKSRVRVK---RYRSFKGAANVVVGNDLNQFHAEERPQKWVTDVTEFKV--Q
GMKLYLSPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAIKK-LSPDERPMIHSDQGWQ
YQHENYRHMLEKHSRKQSMSRRGNCLDNAAMESFFGTLKSEFFYLNSFDSIE--SLEA
GLVEYIQQYNQE-RIKLKLKGLSPVEYRERAQS"
/note="IS3_IS150_ORF1      e-value= 4.9e-88 complete sequence
hit coverage= 100%, length is 300aa with 9 gaps, 0 stops,
frame= Plus2"
CDS              3595595..3596530
/colour="255 0 0"
/evidence=predicted
/translation="KTRCLDPGRAGGARRKAQA-----IQGLRQVhTLSLLLEAAEL
SRS----TFYYQ-NHVLAPDqDEAACERIRAIY-DQSqgRYGY-RTVTLELANQGH
R---TNHKRVQRLMGEMGLKSRVRVKRYRSFKGAANVVVGNDLNQFHAEERPQKWVT
DVTE-----FKVQG-----MKLYLSPIMDLYNGEIVAYQIKRQPVFD
LVGQMLEEAIKKLSPDERPM-IHSQGWQYQHE---NYRHMLEKHSRKQSMSRRGN
CLDNAAMESFFGTLKSEFFYLNS---FDSIESLEAGLVEYIQQYNQERIKLKLKGLSP
VeyrERAQSAAXPRPSLGGHFTLG"
/note="IS481 e-value= 4.9e-06 complete sequence hit
coverage= 100%, length is 312aa with 46 gaps, 1 stops,
frame= Plus2"
CDS              3595634..3596494
/colour="255 0 0"
/evidence=predicted
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DEAACERIRAIYDQSQGRGYRTVTLELA---NOGHRTNKHKRVQRLMGEMGLKSRVR
VK-RYRSFKGAANVVVGNDLNQFHAEERPQKWVTDVTEFKVQ-GMKLYLSPIMDLYN
GEIVAYQIKRQPVFDLVGQMLEEAIKKLSPDERPMIHS----DQGWQYQHENYRHML
EKHSRKQSMSRRGNCLDNAAMESFFGTLKSEFFY--LNSFDSIESLEAGLVEYIQQYY
QERIKLKLKGLSPVEYreRAQSAAX"
/note="IS3_IS150_ORF2      e-value= 2.4e-152 fragment hit
coverage= 76.61%, length is 287aa with 14 gaps, 1 stops,
frame= Plus2"
CDS              3595643..3596515
/colour="255 0 0"
/evidence=predicted
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QDEAACERIRAIYDQSQGRGYRTVTLELANQGHRTNKHKRVQRLMGEMGLKSRVRVK
RYRSFKGAANVVVG-NDLNQFHAEERPQKWVTDVTEFKVQ-QGmKLYLSPIMDLYN
GEIVAYQIKRQPVFDLV-GQMLEEAIKKLSPDE---RPMIHSDQGWQYQHENYRHMLEK

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HSLKQSMSRRGNCLDNAAMESFFGTLKSEFFYL----NSFDSIESLEAGLVEYIQQYN
Q-ERIKLKLKGGLSPVEYrERAQSAAXPRPSLGG"
/note="IS3_IS51_ORF1 e-value= 8.4e-39 complete sequence
hit coverage= 100%, length is 291aa with 18 gaps, 1
stops, frame= Plus2"
CDS 3595643..3596518
/colour="255 0 0"
/evidence=predicted
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VLAHPDQDEAACERIRAIYDQSOG----RGYRTVTLELANQGHRTNKHDRVQRLMG
EMGLKSRVVRVKRYRSFKG-AANVVVGNDLNQFHAERPQKQWVTDVTEFKVQGMKLYL
SPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAIKKLSPD----ERPMIHSDQGWQYQ
HENYRHMLEKHSLKQSMSRRGNCLDNAAMESFFGTLKSEFFYLNSFDSIESLEAGLVE
YIQ-YYNQERIKLKLKGGLSPVEYRER-AQSAAXPRPSLGGH"
/note="IS3_IS51_ORF2 e-value= 7.9e-18 complete sequence
hit coverage= 100%, length is 292aa with 25 gaps, 1
stops, frame= Plus2"
CDS 3595646..3596482
/colour="255 0 0"
/evidence=predicted
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ALCERIRAIYDQSQGRGYRTVTLELA-NQGHRTNKHDRVQRLMGEMGLKSRVVRV-KRY
RSFKgAAANVVVGNDLNQFHAERPQKQWVTDVTEFKVQGMKLYLSPIMDLYNGEIVAY
QIKRQPVFDLVGQMLEEAIKKLSPDERPMIHSDQGWQYQHENYRHMLEKHSLKQSMSR
RGNCLDNAAMESFFGTLK--SEFFYLNSFDSIESLEAGLVEYIQ-YYNQERIKLKLKG
LSPVEYRERAQ"
/note="IS3_IS3_ORF1 e-value= 2.2e-75 complete sequence
hit coverage= 100%, length is 279aa with 8 gaps, 0 stops,
frame= Plus2"
CDS 3595646..3596482
/colour="255 0 0"
/evidence=predicted
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RSFKgAAANVVVGNDLNQFHAERPQKQWVTDVTEFKVQGMKLYLSPIMDLYNGEIVAY
QIKRQPVFDLVGQMLEEAIKKLSPDERPMIHSDQGWQYQHENYRHMLEKHSLKQSMSR
RGNCLDNAAMESFFGTLK--SEFFYLNSFDSIESLEAGLVEYIQ-YYNQERIKLKLKG
LSPVEYRERAQ"
/note="IS3_IS3_ORF1 e-value= 5.9e-76 complete sequence
hit coverage= 100%, length is 279aa with 8 gaps, 0 stops,
frame= Plus2"
CDS 3595658..3596494
/colour="255 0 0"
/evidence=predicted
/translation="GLRQVHTLSLLEAEEALSRSFTYYQNHV-LAHPDQDEAACERI
RAIYDQSQGRGYRTVTLELANQGHRTNKHDRVQRLMGEMGLKSRVVRVKRYRSFKGAAN
VVVG-NDLNQFHAER--PNQKWVTDVTEFKVQGMKLYLSPIMDLYNGEIVAYQIKRQ
PVFDLVGQMLEEAIKK---LSPDERPMIHSDQGWQYQHENYRHMLEKHSLKQSMSR
GNCLDNAAMESFFGTLKSEFFYLNSFDSIESLEAGLVEYIQYY-NQERIKLKLKG
VEYRERAQSAAX"
/note="IS3_IS3_ORF2 e-value= 3.9e-64 complete sequence
hit coverage= 100%, length is 279aa with 9 gaps, 1 stops,
frame= Plus2"
CDS 3595658..3596494
/colour="255 0 0"
/evidence=predicted
/translation="GLRQVHTLSLLEAEEALSRSFTYYQNHV-LAHPDQDEAACERI
RAIYDQSQGRGYRTVTLELANQGHRTNKHDRVQRLMGEMGLKSRVVRVKRYRSFKGAAN
VVVG-NDLNQFHAER--PNQKWVTDVTEFKVQGMKLYLSPIMDLYNGEIVAYQIKRQ
PVFDLVGQMLEEAIKK---LSPDERPMIHSDQGWQYQHENYRHMLEKHSLKQSMSR"

GNCLDNAAMESFFGTLKSEFFYLNSFDSIESLEAGLVEYIQYY-NQERIKLKLKG LSP
VEYRERAQSAAX"
/note="IS3_IS3_ORF2 e-value= 1.1e-64 complete sequence
hit coverage= 100%, length is 279aa with 9 gaps, 1 stops,
frame= Plus2"
CDS 3595766..3596467
/colour="255 0 0"
/evidence=predicted
/translation="AALCERIRAIYDQSQGRYGYRTVTLELANQGHRTNHKRVQRLMG
EMGLKSRVVRVKRYRSFKGAANVVVG-NDLNRFQHAERPQKQWVTDTEFKV-QGmKLY
LSPIMDLYNGEIVAYQIKRQPVFDLV-GQMLEEAIKKLSPDE---RPMIHSQGWQY
QHENYRHMLEKHSLKQSMSRRGNCLDNAAMESFFGTLKSEFFYL---NSFDSIESLE
AGLVEYIQYYNQ-ERIKLKLKG LSPVEY"
/note="IS3_IS51_ORF1 e-value= 4.9e-45 fragment hit
coverage= 79.80%, length is 234aa with 12 gaps, 0 stops,
frame= Plus2"
CDS 3595817..3596344
/colour="255 0 0"
/evidence=predicted
/translation="YGYRTVTLELANQGHRTNHKRVQRLMGEMGLKSRVVRVKRYRSFK
G-AANVVVGNDLNRFQHAERPQKQWVTDTEFKVQGMKLYLSPIMDLYNGEIVAYQIK
RQPVFDLVGQMLEEAIKKLSPD---ERPMIHSQGWQYQHENYRHMLEKHSLKQSM
SRRGNCLDNAAMESFFGTLKSE"
/note="IS3_IS51_ORF2 e-value= 5.2e-32 fragment hit
coverage= 57.41%, length is 176aa with 6 gaps, 0 stops,
frame= Plus2"
CDS 3596321..3596428
/colour="255 0 0"
/evidence=predicted
/translation="FFGTLKSEFFYLNS---FDSIESLEAGLVEYIQYYNQER"
/note="IS481 e-value= 3.8e-07 fragment hit coverage=
11.11%, length is 36aa with 3 gaps, 0 stops, frame=
Plus2"
CDS 4365179..4365262
/colour="255 0 0"
/evidence=predicted
/translation="LRRASPSRGPARQRHGEDAEVVDALRHL"
/note="IS3_IS2_ORF2 e-value= 9.6e-06 fragment hit
coverage= 9.27%, length is 28aa with 0 gaps, 0 stops,
frame= Plus2"
CDS 1355496..1356572
/colour="255 0 0"
/evidence=predicted
/translation="SXTFVDCLSRTFMEKDARKQSREVLHERRKQVIRLHRKG VGV
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TQEVRVIRMTIIDKRPEQIKM
EFALWSRAVRELIERDLGNKLSVRAVG
DYLARWGFTPQKS
SIKKAY--EQR
PEAVQAWLEDEYPTIEARAKREGAEIH
WGDETA
LVNTDVRGR-SYAPAG-----
---QTPVTRAVGGTRQKLSMIATVTNQGK---TRWM
IIIDEAFNSDRLIEFMQALIKES
qGKKIFLILDNLRVHHSKP
VKEWATQHKQDIELFYLP
SPELNPEERLNADLKHAIG
SKVPVRTKA
KLRAAATEH
MTMLENTPERV
KKYFGDKHV
AAYAAS"
/note="IS630 e-value= 2.1e-108 complete sequence hit
coverage= 100%, length is 359aa with 18 gaps, 1 stops,
frame= Plus3"
CDS 1355532..1356572
/colour="255 0 0"
/evidence=predicted
/translation="MEKDARKQSREVLHERRKQVIRLHRKG VGV
QIVEQTGLSWSG
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EFALWSRAVRELIERDLGNKLSVRAVG
DYLARWGFTPQKS
SIKKAY--EQR
PEAVQAWLEDEYPTIEARAKREGAEIH
WGDETA
LVNTDVRGR-SYAPAG-----QTPVTRAVG

GTRQKLSMIATVTNQGK---TRWMI IDEAFNSDRLIEFMQALIKESqGKKIFLILDNL
 RVHHSKPVKEWATQHKQDIELFYLPSYSPELNPEERLNADLKHAIGSKVPVRTKAKLR
 AAATEHMTMLENTPERVKKYFGDKHVAYAAS"
 /note="IS630 e-value= 7.9e-108 fragment hit coverage= 96.81%, length is 347aa with 18 gaps, 0 stops, frame= Plus3"
 CDS 2334351..2335400
 /colour="255 0 0"
 /evidence=predicted
 /translation="----SRRCP-----VGTASAAAPKAD---EKDPFVQAAXGN
 EPRXAAQGS----RLSACGD---RLPKKTRCLDPG----RAGGARRKAQAIQGLR
 QVHTLSLLLEAAELSRTFYQNHVL--AHPDqDEAACERIRAIYDQSQGRGYRTV
 TLELA---NQGHRTNKHKRVQRLMGEMGLKSRVRV-KYRSFKGAANVVVGNDLNROFH
 AERPQKWKVTDVTEFKVQ-GMKLYLSPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAI
 MKLSPDERPMIHS----DQGWQYQHENYRHMLEKHSLKQSMSRRGNCLDNAAMESFF
 GTLKSEFFY--LNSFDSIESLEAGLVEYIYQYYNQERIKLKLKGLSPVEYreRAQSAA
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 /note="IS3_IS150_ORF2 e-value= 5e-121 complete sequence hit coverage= 100%, length is 350aa with 42 gaps, 3 stops, frame= Plus3"
 CDS 2334363..2335418
 /colour="255 0 0"
 /evidence=predicted
 /translation="-----PSVGTASAAAPKADEKDpFVQAA--XGNEPRXAAQGS
 RLSACGDR1PKKtRCLDPGRAGGARRKaqAIQGLRQVHTLSLL--LEAAELSRTFY
 Qnhv1AHPDqDEAACERIRAIYDQSQGRGYRTVTLELANQGHRTNKHKRVQRLGEM
 GLKSRVRV-KYRSFKGAANVVVgndl nrqfhAERPQKWKVTDVTEFKV--Q
 YLSPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAIMK-LSPDERPMIHSDOGWQYQHE
 NYRHMLEKHSLKQSMSRRGNCLDNAAMESFFGTLKSEF--FYLnsFDSIESLEAGLVE
 YIYQYYNQERIKLKLKGLSPVEYRERAQSAAXPRLPSLG"
 /note="IS3_IS407_ORF2 e-value= 9.5e-09 complete sequence hit coverage= 100%, length is 352aa with 19 gaps, 3 stops, frame= Plus3"
 CDS 2334492..2335391
 /colour="255 0 0"
 /evidence=predicted
 /translation="LPKKTRCLDPGRAggARRKAQAIQGLRQVHTLSLLLEAAELSRS
 TFYYQNHVLAHPDqDEAACERIRAIYDQSQGRGYRTVTLELANQGHRTNKHKRVQRL
 MGEMGLKSRVRV-KYRSFKGAANVVVGNDLNROFHAAERPQKWKVTDVTEFKV--Q
 GMKLYLSPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAIMK-LSPDERPMIHSDOGWQ
 YQHENYRHMLEKHSLKQSMSRRGNCLDNAAMESFFGTLKSEFFYLN
 SIE--SLEAGLVEYIYQYYNQERIKLKLKGLSPVEYRERAQS"
 /note="IS3_IS150_ORF1 e-value= 1.2e-86 complete sequence hit coverage= 100%, length is 300aa with 9 gaps, 0 stops, frame= Plus3"
 CDS 2334492..2335391
 /colour="255 0 0"
 /evidence=predicted
 /translation="LPKKTRCLDPGRAggARRKAQAIQGLRQVHTLSLLLEAAELSRS
 TFYYQNHVLAHPDqDEAACERIRAIYDQSQGRGYRTVTLELANQGHRTNKHKRVQRL
 MGEMGLKSRVRV-KYRSFKGAANVVVGNDLNROFHAAERPQKWKVTDVTEFKV--Q
 GMKLYLSPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAIMK-LSPDERPMIHSDOGWQ
 YQHENYRHMLEKHSLKQSMSRRGNCLDNAAMESFFGTLKSEFFYLN
 SIE--SLEAGLVEYIYQYYNQERIKLKLKGLSPVEYRERAQS"
 /note="IS3_IS150_ORF1 e-value= 3.2e-87 complete sequence hit coverage= 100%, length is 300aa with 9 gaps, 0 stops, frame= Plus3"
 CDS 2334501..2335436
 /colour="255 0 0"
 /evidence=predicted

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/evidence=predicted
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RSFKGAANVVVGNDLNQRFHAERPQKWVTDVTEFKVQGMKLYLSPIMDLYNGEIVAY
QIKRQPVFDLVGQMLEEAIMKLSPDERPMIHSDQGWQYQHENYRHMLEKHSLKQSMSR
RGNCLDNAAMESFFGTLK--SEFFYLNSFDSIESLEAGLVEYIQ-YYNQERIKLKLKG
LSPVEYRERAQ"
/note="IS3_IS3_ORF1      e-value= 4.6e-75 complete sequence
hit coverage= 100%, length is 279aa with 8 gaps, 0 stops,
frame= Plus3"
CDS 2334564..2335400
/colour="255 0 0"
/evidence=predicted
/translation="GLRQVHTLSLLLEAAELSRSTFYYQNHV-LAHPDQDEAACERI
RAIYDQSQGRGYRTVTLELANQGHRTNKHKRVRQLMGEMGLKSRVRVKRYRSFKGAAN
VVVG-NDLNQRFHAER--PNQKWVTDVTEFKVQGMKLYLSPIMDLYNGEIVAYQIKRQ
PVFDLVGQMLEEAIMK---LSPDERPMIHSDQGWQYQHENYRHMLEKHSLKQSMSRR
GNCLDNAAMESFFGTLKSEFFYLNSFDSIESLEAGLVEYIQYY-NQERIKLKLKG
LSPVEYRERAQSAAX"
/note="IS3_IS3_ORF2      e-value= 1.2e-63 complete sequence
hit coverage= 100%, length is 279aa with 9 gaps, 1 stops,
frame= Plus3"
CDS 2334564..2335400
/colour="255 0 0"
/evidence=predicted
/translation="GLRQVHTLSLLLEAAELSRSTFYYQNHV-LAHPDQDEAACERI
RAIYDQSQGRGYRTVTLELANQGHRTNKHKRVRQLMGEMGLKSRVRVKRYRSFKGAAN
VVVG-NDLNQRFHAER--PNQKWVTDVTEFKVQGMKLYLSPIMDLYNGEIVAYQIKRQ
PVFDLVGQMLEEAIMK---LSPDERPMIHSDQGWQYQHENYRHMLEKHSLKQSMSRR
GNCLDNAAMESFFGTLKSEFFYLNSFDSIESLEAGLVEYIQYY-NQERIKLKLKG
LSPVEYRERAQSAAX"
/note="IS3_IS3_ORF2      e-value= 3.3e-64 complete sequence
hit coverage= 100%, length is 279aa with 9 gaps, 1 stops,
frame= Plus3"
CDS 2334672..2335373
/colour="255 0 0"
/evidence=predicted
/translation="AALCERIRAIYDQSQGRGYRTVTLELANQGHRTNKHKRVRQLMG
EMGLKSRVRVKRYRSFKGAANVVVG-NDLNQRFHAERPQKWVTDVTEFKV-QGmKLY
LSPIMDLYNGEIVAYQIKRQPVFDLV-GQMLEEAIMKLSPDE---RPMIHSDQGWQY
QHENYRHMLEKHSLKQSMSRRGNCLDNAAMESFFGTLKSEFFYL---NSFDSIESLE
AGLVEYIQYYNQ-ERIKLKLKG
LSPVEY"
/note="IS3_IS51_ORF1      e-value= 5e-45 fragment hit
coverage= 79.80%, length is 234aa with 12 gaps, 0 stops,
frame= Plus3"
CDS 2334723..2335250
/colour="255 0 0"
/evidence=predicted
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G-AANVVVGNDLNQRFHAERPQKWVTDVTEFKVQGMKLYLSPIMDLYNGEIVAYQIK
RQPVFDLVGQMLEEAIMKLSPDE---RPMIHSDQGWQYQHENYRHMLEKHSLKQSMS
SRRGNCLDNAAMESFFGTLKSE"
/note="IS3_IS51_ORF2      e-value= 7.8e-32 fragment hit
coverage= 57.41%, length is 176aa with 6 gaps, 0 stops,
frame= Plus3"
CDS 2335227..2335334
/colour="255 0 0"
/evidence=predicted
/translation="FFGTLKSEFFYLNS---FDSIESLEAGLVEYIQYYNQER"
/note="IS481 e-value= 3.8e-07 fragment hit coverage="

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11.11%, length is 36aa with 3 gaps, 0 stops, frame= Plus3"

CDS 4666605..4666814
/colour="255 0 0"
/evidence=predicted
/translation="RLTFGDAQGLGKRKQTRREILLYEVDXVVPWKALPARIEPHYP-RSGRVGRSPYAMETMLRIHLLQQXYAF"
/note="IS5_IS5 e-value= 2.4e-24 fragment hit coverage= 16.82%, length is 70aa with 1 gaps, 2 stops, frame= Plus3"

CDS 4666605..4667441
/colour="255 0 0"
/evidence=predicted
/translation="RLTFGDAQGLGKRKQTRREILLYEVDXVVPWKALPARIEPHYP-RSGRVGRSPYAMETMLRIHLLQQXYAFEQFGHVASVARDxfdaavRTAHQSFSQGDALHN-----SRGLHAKRREESXRLLWSincriETNTDLASLQESAAA-----AAA AQAAASLQSN-----
-----HF-----
DACSSRIRSRLTSTRLAITMTTAP-----MNKNGKVRPSAVAATI ARQHTQ-----MAKVFSLIPWILTFLMPATSGNIFF--QXGHEGSPPR----R GAMVALLLRXVEERNASVAASFLLV-IQSLLRKHSRHPVRR"
/note="IS5_IS5 e-value= 2.5e-06 complete sequence hit coverage= 100%, length is 279aa with 155 gaps, 5 stops, frame= Plus3"

CDS complement(3988994..3988837)
/colour="255 0 0"
/evidence=predicted
/translation="PEPTRTIFRLNRLQGLTQAEIARRLGVSFTTENHVRTA-LQRL AWARSG-----RXSP"
/note="IS21_ORF1 e-value= 5e-06 fragment hit coverage= 11.62%, length is 53aa with 8 gaps, 1 stops, frame= Minus1"

CDS complement(2520995..2519887)
/colour="255 0 0"
/evidence=predicted
/translation="VQDRGGPT-----DRXVRPSGSGGCRATgRVDPXSLRLEAATR ORRCWPACRAGPERGS-APPQGXATQGHXRARHPKKSRRVL---CKGVRAKYAFMKQH ADEFGLAAMCRMLGVHRSGYYAWLKEPASARDKDDQRLGLIKHSWLESGSVYGHCKV TTDLR---ELGETCSRHRVARLMKSEGLRAMVGYGRPRPLSGPGVGSVAKNVLARGFK VSEPNRAWVTIDITYIRTY-DGFLYLAVVLDLFSRQVVGWATRPTQHTDLVLQALLAAV WRRKPSPGLLLHS----DQGTQFTSEDWQSLREHDIVCSMSRRGNCHDNAAMESFF QLLKRERIK--RRIYSNHDEARADVFQYIEmFYNPKRRHSSNDGLSPVEFEKQYALN"
/note="IS3_IS150_ORF2 e-value= 1.2e-45 complete sequence hit coverage= 100%, length is 370aa with 21 gaps, 4 stops, frame= Minus1"

CDS complement(2520797..2519854)
/colour="255 0 0"
/evidence=predicted
/translation="RARHPKKSRRVLCKGVRAKYAFMKQHADEFGLAAMC--RMLGVH RS-GYYAWLKE---PASARDKDDQRLGLIKHsWLESGSVYGHCKVTTDLRELGET--- CSRHRVARLMKSEGLRAMVGYGRPRPLSGPGVGSVAKNVLARGFKVSEPNRAWVTIDIYI-----RT-----YDGFLYLAVVLDLFSRqVVGWATRPTQHTDLV LQALLAAVWRRKPSPGL-L--LHSDQGTQFTSE---DWQSLREHDIVCSMSRRGNCHDNAAMESFFQLLKRERIKRRI---YSNHDEARADVFQYIEmFYNPKRRHSSNDGLSP VEFKQYALNGXRLSRKPWAI"
/note="IS481 e-value= 4.4e-07 complete sequence hit coverage= 100%, length is 315aa with 40 gaps, 1 stops, frame= Minus1"

CDS complement(2520794..2519890)
/colour="255 0 0"

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/evidence=predicted
/translation="ARHPKKSRRVLCKgVRAKYAFMKQHADFGLAAMCRMLGVHRSg
YYAWLKePASARDKDDQRLLGLIKHSWLESGSVYGHRKVTTDLRELGETCSRHRVARL
MKSEGLRAMVGYGR--RPRPLSGPGVGSVAKNVLARGFKVSEPNRAWVTDTITYIRT--Y
DGFLYLVAVLDLFSRQVVGWATRPTQHTDVLQALLAAVWR-RKPSPGLLLHSDQGTQ
FTSEDWQSFRLREHDIVCSMSRRGNCHDNAAMESFFQLLKRERIKRRIYSNHD--EARA
DVFQYIEMFYNPKRRHSSNDGLSPVEFEKQYAL"
/note="IS3_IS150_ORF1      e-value= 1.4e-57 complete sequence
hit coverage= 100%, length is 302aa with 7 gaps, 0 stops,
frame= Minus1"
CDS complement(2520770..2519878)
/colour="255 0 0"
/evidence=predicted
/translation="RVLCKGVRACKYAFMKqhADFGLAAMCRMLGVHRSgYYAWLK--
---EPASARDKDDQRLLGLIKHSWLESGSVYGHRKVTTDLRELGETCSR----HRV
ARLMkseGLRAMVgYGRPRPLSGP---VGSVAknvlargfkVSEPNRAWVTDTITYIR
TYDG--FLYLVAVLDLFSRQVVGWATRPTQ--HTDLVLQALLAAVWR---KPSPLL
LH-SDQGTQFTSEDWQSFRLREHDIVCSMSRRGNCHDNAAMESFFQLLKRERIKRRIYS
NHDEARA--DVFQYIEMFYNPKRRHSSNDGLSPVEFEKQYALNGXR"
/note="IS3_IS2_ORF2      e-value= 1.4e-07 complete sequence
hit coverage= 100%, length is 298aa with 24 gaps, 1
stops, frame= Minus1"
CDS complement(2520767..2519890)
/colour="255 0 0"
/evidence=predicted
/translation="VLCKgVRAKYAFMKQHADFGLAAMCRMLGVHRSgYYAWLKePA
SARDKDDQRLLGLIKHSWLESGSVYGHRKVTTDLRELGETCSRHRVARLMKSEGLRAM
VGYGR--RPRPLSGPGVGSVAKNVLARGFKVSEPNRAWVTDTITYIRT--YDGFLYLVV
LDLFSRQVVGWATRPTQHTDVLQALLAAVWR-RKPSPGLLLHSDQGTQFTSEDWQSF
LREHDIVCSMSRRGNCHDNAAMESFFQLLKRERIKRRIYSNHD--EARADVQYIEMF
YNPKRRHSSNDGLSPVEFEKQYAL"
/note="IS3_IS150_ORF1      e-value= 5.1e-57 fragment hit
coverage= 97.06%, length is 293aa with 7 gaps, 0 stops,
frame= Minus1"
CDS complement(2520758..2519842)
/colour="255 0 0"
/evidence=predicted
/translation="KGVRAKYAFMKQHAD--EFGLAAMCRMLGVH---RSGYYAWLKE
PASARDKDDQRLLGLIKHSWLESGS----VYGHRKVTTDLRELGETCSRHRVARLMK
SEGLRAMVGYGRPRPLSGPGVGSVAKNVLARGFKVSEPNRAWVTDTITYIRTYDGFLY
AVVLDLFSRQVVGWATRPTQHTDVLQALLAAVWRKPS----PGLLLHSDQGTQFT
SEDWQSFRLREHDIVCSMSRRGNCHDNAAMESFFQLLKRERIKRRIYSNHDEARADVQ
YIEMFYNPKRRHSSNDGLSPVEFEKQYALNGxrlsRKPWAIQTDN"
/note="IS3_IS51_ORF2      e-value= 4.4e-135 complete
sequence
hit coverage= 100%, length is 306aa with 15 gaps, 0
stops, frame= Minus1"
CDS complement(2520740..2519896)
/colour="255 0 0"
/evidence=predicted
/translation="YAFMKQHADFGLAAMCRMLGVHRSgYYAWL----KEPASARD
KDDQRLLGLIKHSWLESGSVYGHRKVTTDLRELGETCSRHRVARLMKSEGLRAMVGYG
RRPRPLSGPGVGSVAKNVLARGFKVSEPNRAWVTDTITYIRTYDGFLYLVAVLDLFSRQV
VGWATRPTQHTDVL-LQALLAAVWRKPS---GLLLHSDQGTQFTSEDWQSFRLREH
DIVCSMSRRGNCHDNAAMESFFQLLKRERIKR---RIYSNHDEARADVQYIEMFYN
PKRRHSSNDGLSPVEFEKQY"
/note="IS3_IS51_ORF1      e-value= 3.9e-110 fragment hit
coverage= 96.42%, length is 282aa with 14 gaps, 0 stops,
frame= Minus1"
CDS complement(2520740..2519863)

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/colour="255 0 0"
/evidence=predicted
/translation="YAFMKQHADEFGLAAMCRMLGVHRSGYYAWL-----KEPASARD
KDDQRLLGLIKHSWLESGSVYGHRKVTTDLRELGETCSRHRVARLMKSEGLRAMVGYG
RRPRPLSGPVGSVAKNVLARGFKVSEPNRAWVTDTITYIRTYDGFLYLAVVLDLFSRQV
VGWATRPTQHTDLV-LQALLAAVWRKPSP----GLLLHSDQGTQFTSEDWQSFLREH
DIVCSMSRRGNCHDNAAMESFFQOLLKRERIKR---RIYSNHDEARADVFQYIEMFY
PKRRHSSNDGLSPVEFEKQYALNGXRLSRKP"
/note="IS3_IS51_ORF1      e-value= 3.7e-108 complete

sequence
hit coverage= 100%, length is 293aa with 14 gaps, 1
stops, frame= Minus1"
CDS
complement(2520737..2519893)
/colour="255 0 0"
/evidence=predicted
/translation="AFMKQHADEFGLAAMCRMLGVHRSGYYAWLKE--PASARDKDDQ
RLLGLIKHSWLESGSVYGHRKVTTDLR-ELGETCSRHRVARLMKSEGLRAMVGYG-RR
PRPLsgPVGSVAKNVLARGFKVSEPNRAWVTDTITYIRTYDGFLYLAVVLDLFSRQVVG
WATRPTQHTDLVLQALLAAVWRKPSPGLLLHSDQGTQFTSEDWQSFLREHDIVCSMS
RRGNCHDNAAMESFFQOLLK--RERIKRRIYSNHDEARADVFQYIEMFYNPKRRHSSND
GLSPVEFEKQYA"
/note="IS3_IS3_ORF1      e-value= 1.9e-94 complete sequence
hit coverage= 100%, length is 282aa with 6 gaps, 0 stops,
frame= Minus1"
CDS
complement(2520737..2519893)
/colour="255 0 0"
/evidence=predicted
/translation="AFMKQHADEFGLAAMCRMLGVHRSGYYAWLKE--PASARDKDDQ
RLLGLIKHSWLESGSVYGHRKVTTDLR-ELGETCSRHRVARLMKSEGLRAMVGYG-RR
PRPLsgPVGSVAKNVLARGFKVSEPNRAWVTDTITYIRTYDGFLYLAVVLDLFSRQVVG
WATRPTQHTDLVLQALLAAVWRKPSPGLLLHSDQGTQFTSEDWQSFLREHDIVCSMS
RRGNCHDNAAMESFFQOLLK--RERIKRRIYSNHDEARADVFQYIEMFYNPKRRHSSND
GLSPVEFEKQYA"
/note="IS3_IS3_ORF1      e-value= 4.9e-95 complete sequence
hit coverage= 100%, length is 282aa with 6 gaps, 0 stops,
frame= Minus1"
CDS
complement(2520725..2519881)
/colour="255 0 0"
/evidence=predicted
/translation="QHADEFGLAAMCRMLGVHRSGYYAWLKEPASARDKDDQRLLGLI
KHSWLESGSVYGHRKVTTDLRELGETCSRHRVARLMKSEGLRAMvGYGRRPRPLSGPV
GSVAK-NVLARGFKVSE--PNRAWVTDTITYIRTYDGFLYLAVVLDLFSRQVVGWATRP
TQHTDLVLQALLAAVWR---RKPSPGLLLHSDQGTQFTSEDWQSFLREHDIVCSMSR
RGNCHDNAAMESFFQOLLKRERIKRRIYSNHDEARADVFQYIEMFYNPKRRHSSNDGLS
PVEFEKQYALNGX"
/note="IS3_IS3_ORF2      e-value= 7.1e-102 complete

sequence
hit coverage= 100%, length is 282aa with 7 gaps, 1 stops,
frame= Minus1"
CDS
complement(2520725..2519881)
/colour="255 0 0"
/evidence=predicted
/translation="QHADEFGLAAMCRMLGVHRSGYYAWLKEPASARDKDDQRLLGLI
KHSWLESGSVYGHRKVTTDLRELGETCSRHRVARLMKSEGLRAMvGYGRRPRPLSGPV
GSVAK-NVLARGFKVSE--PNRAWVTDTITYIRTYDGFLYLAVVLDLFSRQVVGWATRP
TQHTDLVLQALLAAVWR---RKPSPGLLLHSDQGTQFTSEDWQSFLREHDIVCSMSR
RGNCHDNAAMESFFQOLLKRERIKRRIYSNHDEARADVFQYIEMFYNPKRRHSSNDGLS
PVEFEKQYALNGX"
/note="IS3_IS3_ORF2      e-value= 2e-102 complete sequence

hit

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coverage= 100%, length is 282aa with 7 gaps, 1 stops,
frame= Minus1"
CDS complement(2520713..2519887)
/colour="255 0 0"
/evidence=predicted
/translation="EFLGLAACMCRMLGVHRSYYAWLKEPASARDKDDQRLGLIKHSW
LESGSVYGHRKVTTDLR---ELGETCSRHRVARLMKSEGLRAMVGYGRPRPLSGPVG
SVAKNVLARGFKVSEPNRAWVTDITYIRTY-DGFLYLAVVLDLFSRQVVGWATRPTQH
TDLVLQALLAAVWRKPSPGLLLHS----DQGTQFTSEDWQSFLREHDIVCSMSRRG
NCHDNAAMESFFQOLLKRERIK--RRIYSNHDEARADVFOYIEmFYNPKRRHSSNDGLS
PVEFEKQYALN"
/note="IS3_IS150_ORF2      e-value= 1.9e-74 fragment hit
coverage= 73.52%, length is 276aa with 11 gaps, 0 stops,
frame= Minus1"
CDS complement(2520710..2519893)
/colour="255 0 0"
/evidence=predicted
/translation="FGLAACMCRMLGVH---RSGYYAWLKEPASARDKDDQRLGLIKH
SWLESGS----VYGHRKVTTDLRELGETCSRHRVARLMKSEGLRAMVGYGRPRPLS
GPVGSVAKNVLARGFKVSEPNRAWVTDITYIRTYDGFLYLAVVLDLFSRQVVGWATRP
TQHTDVLQALLAAVWRKPSPGLLLHS----PGLLLHSDQGTQFTSEDWQSFLREHDIVCSMS
RRGNCHDNAAMESFFQOLLKRERIKRRIYSNHDEARADVFOYIEmFYNPKRRHSSNDGL
SPVEFEKQYA"
/note="IS3_IS51_ORF2      e-value= 7.1e-152 fragment hit
coverage= 90.22%, length is 273aa with 13 gaps, 0 stops,
frame= Minus1"
CDS complement(2443193..2442061)
/colour="255 0 0"
/evidence=predicted
/translation="LCTGARRVAXPGFPFHASCNPSSSRGQGDLPLIVSLHHRAPDK-
---AHTEGX-KRVRLAIPETYRTRAVR---QEGLVRSSHTKIRIPKksrgvrlrqgMTA
KYAFMREHLGEFRLLTAMCRVLCGVNRSGYYAWAGNS--GRPRRREDDdrLRGLIKHAWLA
SGTVYGYRKITRELR---EAGERCSRHRVRRLMKAEGIRAEIGYGTKPRHRGGPPGMV
-ENVVNRFSPAAPNKVWVTDITYIRTY-EGWTFLAVIVDLYSRQVVGWAMQSQMTTD
LVLQALVSAVWKPKAAGLIHS----DQGSQFTSSDWLSLLKQNGMVPSMSRRGNC
HDNAVAESFFSALKKERIK--RRIYPTRDEARSDVFNYIEmFYNPIRRHGSAGNLAPV
EF-ERRYAQ"
/note="IS3_IS150_ORF2      e-value= 1.2e-42 complete sequence
hit coverage= 100%, length is 378aa with 23 gaps, 2
stops, frame= Minus1"
CDS complement(2442968..2442064)
/colour="255 0 0"
/evidence=predicted
/translation="TKIRIPKKsrgVLRQgMTAKYAFMREHLGEFRLLTAMCRVLCGVNR
SgYYAWAGNSGRPRRREDDRLRGLIKHAWL1ASGTVYGYRKITRELRREAGERCSRHRV
RLMKAEGRRAEIGYGT---KPRHRGGPPGMVENVNRDFSPAAPNKVWVTDITYIRT-
-YEGWTFLAVIVDLYSRQVVGWAMQSQMTTDVLQALVSAVWK-RKPAAGLIHSQDQG
SQFTSSDWLSLLKQNGMVPSMSRRGNC HDNAVAESFFSALKKERIKRRIYPTRD--EA
RSDVFNYIEmFYNPIRRHGSAGNLAPVEF-ERRYA"
/note="IS3_IS150_ORF1      e-value= 2.9e-46 complete sequence
hit coverage= 100%, length is 302aa with 9 gaps, 0 stops,
frame= Minus1"
CDS complement(2442926..2442025)
/colour="255 0 0"
/evidence=predicted
/translation="QGMTAKYAFMREHLGEFR--LTAMCRVLCGVN---RSGYYAWAGN
SGRPRRREDDRLRGLIKHAWLASGT----VYGYRKITRELRREAGERCSRHRVRRLMK
AEGIRAEIGYGTKPRHRGGPPGMV-ENVVNRFSPAAPNKVWVTDITYIRTYEGWTFL
AVIVDLYSRQVVGWAMQSQMTTDVLQALVSAVWKPKA----AGLIIHSQDQGSQFT
SSDWLSLLKQNGMVPSMSRRGNC HDNAVAESFFSALKKERIKRRIYPTRDEARSDVF

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YIEMFYNPIRRHGSAGNLAPVEFERRYAQGGSXMSSTEVWPV"
/note="IS3_IS51_ORF2      e-value= 9.2e-135 complete
sequence
hit coverage= 100%, length is 301aa with 16 gaps, 1
stops, frame= Minus1"
CDS
complement(2442908..2442037)
/colour="255 0 0"
/evidence=predicted
/translation="YAFMREHLGEFRLTAMCRVLGVNRSGYYAWA---GNSGRPRRRE
--DDRLRGLIKHAWLASGTVYGYRKITRELREAGERCSRHRVRRLMKAEGIRAEIGYG
TKPRHRGGPPGMVE-NVVNRDFSPAAPNPKVWVTDTITYIRTYEGWTFALIVDLYSRQV
VGWAMQSQMTTDLV-LQALVSAWKPKAA---GLIIHSQDQGSQFTSSDWLSLLKQN
GMVPSMSRRGNCHDNAVAEFSALKKERIKR---RIYPTRDEARSDVFNYIEMFY
PIRRHGSAGNLAPVEFERRY-AQGGSXMSSTE"
/note="IS3_IS51_ORF1      e-value= 1.2e-109 complete
sequence
hit coverage= 100%, length is 291aa with 16 gaps, 1
stops, frame= Minus1"
CDS
complement(2442908..2442037)
/colour="255 0 0"
/evidence=predicted
/translation="YAFMREHLGEFRLTAMCRVLGVNRSGYYAWA---GNSGRPRRRE
--DDRLRGLIKHAWLASGTVYGYRKITRELREAGERCSRHRVRRLMKAEGIRAEIGYG
TKPRHRGGPPGMVE-NVVNRDFSPAAPNPKVWVTDTITYIRTYEGWTFALIVDLYSRQV
VGWAMQSQMTTDLV-LQALVSAWKPKAA---GLIIHSQDQGSQFTSSDWLSLLKQN
GMVPSMSRRGNCHDNAVAEFSALKKERIKR---RIYPTRDEARSDVFNYIEMFY
PIRRHGSAGNLAPVEFERRY-AQGGSXMSSTE"
/note="IS3_IS51_ORF1      e-value= 1.3e-108 complete
sequence
hit coverage= 100%, length is 291aa with 16 gaps, 1
stops, frame= Minus1"
CDS
complement(2442905..2442064)
/colour="255 0 0"
/evidence=predicted
/translation="AFMREHLGEFRLTAMCRVLGVNRSGYYAWAGN--SGRPRRREDD
RLRGLIKHAWLASGTVYGYRKITREL-EAGERCSRHRVRRLMKAEGIRAEIGYG---
-TKPRHRGgPpgMVENVNRDFSPAAPNPKVWVTDTITYIRTYEGWTFALIVDLYSRQV
VGWAMQSQMTTDLVLQALVSAWKPKAAGLIIHSQDQGSQFTSSDWLSLLKQNGMVP
MSRRGNCHDNAVAEFSALK--KERIKRRIYPTRDEARSDVFNYIEMFYNPIRRHGS
AGNLAPVEFERRYA"
/note="IS3_IS3_ORF1      e-value= 1e-93 complete sequence
hit
coverage= 100%, length is 281aa with 9 gaps, 0 stops,
frame= Minus1"
CDS
complement(2442905..2442064)
/colour="255 0 0"
/evidence=predicted
/translation="AFMREHLGEFRLTAMCRVLGVNRSGYYAWAGN--SGRPRRREDD
RLRGLIKHAWLASGTVYGYRKITREL-EAGERCSRHRVRRLMKAEGIRAEIGYG---
-TKPRHRGgPpgMVENVNRDFSPAAPNPKVWVTDTITYIRTYEGWTFALIVDLYSRQV
VGWAMQSQMTTDLVLQALVSAWKPKAAGLIIHSQDQGSQFTSSDWLSLLKQNGMVP
MSRRGNCHDNAVAEFSALK--KERIKRRIYPTRDEARSDVFNYIEMFYNPIRRHGS
AGNLAPVEFERRYA"
/note="IS3_IS3_ORF1      e-value= 2.7e-94 complete sequence
hit coverage= 100%, length is 281aa with 9 gaps, 0 stops,
frame= Minus1"
CDS
complement(2442893..2442052)
/colour="255 0 0"
/evidence=predicted
/translation="EHLGEFRLTAMCRVLGVNRSGYYAWAGNSGRPRRREDDRLRGLI

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KHAWLASGTVYGYRKITRELREAGERCSRHRVRRLMKAEGIRAEIgYGTKPRHRGG--
PPGMVENVNRFSPAA--PNKVWVTIDITYIRTYEGWTFLAVIVDLYSRQVVGWAMQS
QMTTDLVLQALVSAWK---RKPAAGLIIHSDQGSQFTSSDWLSLLKQNGMVPMSR
RGNCHDNAVAESEFFSALKKERIKRRIYPTRDEARSDVFNYIEMFYNPIRRHSAGNLA
PVEFERRYAQGGS"
/note="IS3_IS3_ORF2      e-value= 2.8e-107 complete
sequence
hit coverage= 100%, length is 281aa with 8 gaps, 0 stops,
frame= Minus1"
CDS
complement(2442893..2442052)
/colour="255 0 0"
/evidence=predicted
/translation="EHLGEFRLTAMCRVLGVNRSGYYAWAGNSGRPRRREDDRLRGLI
KHAWLASGTVYGYRKITRELREAGERCSRHRVRRLMKAEGIRAEIgYGTKPRHRGG--
PPGMVENVNRFSPAA--PNKVWVTIDITYIRTYEGWTFLAVIVDLYSRQVVGWAMQS
QMTTDLVLQALVSAWK---RKPAAGLIIHSDQGSQFTSSDWLSLLKQNGMVPMSR
RGNCHDNAVAESEFFSALKKERIKRRIYPTRDEARSDVFNYIEMFYNPIRRHSAGNLA
PVEFERRYAQGGS"
/note="IS3_IS3_ORF2      e-value= 7.8e-108 complete
sequence
hit coverage= 100%, length is 281aa with 8 gaps, 0 stops,
frame= Minus1"
CDS
complement(2442884..2442061)
/colour="255 0 0"
/evidence=predicted
/translation="GEFRLTAMCRVLGVNRSGYYAWAGNS--GRPrrREddrLRGLIK
HAWLASGTVYGYRKITRELr---EAGERCSRHRVRRLMKAEGIRAEIGYGTKPRHRGG
PPGMV-ENVVNRFSPAAPNKVWVTIDITYIRTY-EGWTFLAVIVDLYSRQVVGWAMQS
QMTTDLVLQALVSAWKPAAGLIIHS----DQGSQFTSSDWLSLLKQNGMVPMSMS
RRGNCHDNAVAESEFFSALKKERIK--RRIYPTRDEARSDVFNYIemFYNPIRRHSAG
NLAPVEF-ERRYAQ"
/note="IS3_IS150_ORF2      e-value= 3.9e-68 fragment hit
coverage= 73.78%, length is 275aa with 15 gaps, 0 stops,
frame= Minus1"
CDS
complement(2442866..2442052)
/colour="255 0 0"
/evidence=predicted
/translation="AMCRVLGVN---RSGYYAWAGNSGRPrrREDDRLRGLIKHAWLA
SGT----VYGYRKITRELREAGERCSRHRVRRLMKAEGIRAEIGYGTKPRHRGGPPG
MV-ENVVNRFSPAAPNKVWVTIDITYIRTYEGWTFLAVIVDLYSRQVVGWAMQSQMTT
DLVLQALVSAWKPA----AGLIIHSDQGSQFTSSDWLSLLKQNGMVPMSRGN
CHDNAVAESEFFSALKKERIKRRIYPTRDEARSDVFNYIEMFYNPIRRHSAGNLPVE
FERRYAQGGS"
/note="IS3_IS51_ORF2      e-value= 7.1e-151 fragment hit
coverage= 90.22%, length is 272aa with 14 gaps, 0 stops,
frame= Minus1"
CDS
complement(2442734..2442064)
/colour="255 0 0"
/evidence=predicted
/translation="VYGYRKITRELREAGERCSRHRVRRLMKAEGIRAEIGYGT---K
PRHRGGPPGMVENVNRFSPAAPNKVWVTIDITYIRT--YEGWTFLAVIVDLYSRQVV
GWAMQSQMTTDLVLQALVSAWK-RKPAAGLIIHSDQGSQFTSSDWLSLLKQNGMVP
MSRRGNCHDNAVAESEFFSALKKERIKRRIYPTRD--EARSDVFNYIEMFYNPIRRHS
AGNLPVEF-ERRYA"
/note="IS3_IS150_ORF1      e-value= 2.3e-51 fragment hit
coverage= 76.14%, length is 224aa with 9 gaps, 0 stops,
frame= Minus1"
CDS
complement(2395079..2394205)
/colour="255 0 0"
/evidence=predicted

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<translation="FGIGIDVSKATLDVAVHGEQ-----FRQFSNDKRGFVRLIRWL
KTWP-----IKQVVLEASGGYERAALDVLHAA---GLPMVRINPARARRFAQGT-GRA
AKTDRLDATVLAQMAHLLPLTRYVP--PAPW---QORLAEFAQCRRQLVQMRVSEMQR
LRRLVDPDLIA-----
-----MKQRHIAQLSDDLKQLDKIAEOLEGQPGW
KNIGA-----LKGVGPILISTLACELP-ELGSLGSK-AIASLVGLAPMNRESG-TWO
GQRRISG-GRAVVREALYMAALTAIRYEPRLRAFYAGLKAKGK---ASKVALVAVMRK
MLVILNAR"
/note="IS110 e-value= 1.4e-51 fragment hit coverage=
96.15%, length is 292aa with 108 gaps, 0 stops, frame=
Minus1"
CDS complement(2395079..2394142)
/colour="255 0 0"
/evidence=predicted
/translation="FGIGIDVSKATLDVAVHGEQ-----FRQFSNDKRGFVRLIRWL
KTWP-----IKQVVLEASGGYERAALDVLHAA---GLPMVRINPARARRFAQGT-GRA
AKTDRLDATVLAQMAHLLPLTRYVP--PAPW---QORLAEFAQCRRQLVQMRVSEMQR
LRRLVDPDLIA-----
-----MKQRHIAQLSDDLKQLDKIAEOLEGQPGW
KNIGA-----LKGVGPILISTLACELP-ELGSLGSK-AIASLVGLAPMNRESG-TWO
GQRRISG-GRAVVREALYMAALTAIRYEPRLRAFYAGLKAKGK---ASKVALVAVMRK
MLVILNARkrdaeVALGCPXQDSCYXPPP"
/note="IS110 e-value= 6.5e-50 complete sequence hit
coverage= 100%, length is 313aa with 108 gaps, 2 stops,
frame= Minus1"
CDS complement(1723697..1723555)
/colour="255 0 0"
/evidence=predicted
/translation="KRYTDEFKIEAVRQIVEYGRPVAEVAERLGVSIHSLYGWKRQQG
KGDV"
/note="IS3_IS407_ORF1      e-value= 7.7e-06 fragment hit
coverage= 55.81%, length is 48aa with 0 gaps, 0 stops,
frame= Minus1"
CDS complement(1723544..1723417)
/colour="255 0 0"
/evidence=predicted
/translation="VEQDQNAEVRRLKAELRRVTEERDILK--KAAAYFAKGXEQSTPS"
/note="IS3_IS51_ORF1      e-value= 3.2e-08 fragment hit
coverage= 14.66%, length is 43aa with 2 gaps, 1 stops,
frame= Minus1"
CDS complement(877250..876166)
/colour="255 0 0"
/evidence=predicted
/translation="MAAAVCSRrcpsVGTASAAPKADEKDpFVQAA--XGNEPRXAA
QGSRLSACGDR1PKKtRCLDPGRAGGARRKaqAIQGLRQVHTLSLL--LEAAELSRT
FYYQnhv1AHPDQDEAACERIRAIYdQSKGRGYRTVTLELANQGHRTNHKRVQRLM
GEMGLKSRVRRV-KRYRSFKGAANVVVgndlqrqfhAERPQKWW---VTDVTefkVQG
MKLYLSPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAIKK-LSPDerpMIHSDQGWQY
QHENYRHMLEKHSLKQSMSRRGNCLDNAAMESFFGTLKSEF--FYLnsFDNIESLEAG
LVEYIQYYNQERIKLKLKGGLSPVEYRERAQSAAXPRLPSLG"
/note="IS3_IS407_ORF2      e-value= 1.2e-08 complete sequence
hit coverage= 100%, length is 362aa with 12 gaps, 3
stops, frame= Minus1"
CDS complement(877244..876184)
/colour="255 0 0"
/evidence=predicted
/translation="AAVCSRRCPS-----VGTASAAPKAD--EKDPFVQAXGN
EPRXAAQGS----RLSACGD---RLPKKTRCLDPG-----RAGGARRKAQAIQGLR
QVHTLSLLLEAAELSRTFYYQNHVL--AHPDqDEAACERIRAIYdQSKGRGYRTV
</pre>

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TLELA---NQGHRTNHKRVQRLMGEMGLKSRVRV р-РYRSFKGAANVVVGNDLNQFHH
 AERPNQKWTDVTEFKVQ-GMKLYLSPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAI
 KKLSPDERPMIHS-----DQGWQYQHENYRHMLEKHSLKQSMSRRGNCLDNAAMESFF
 GTLKSEFFY--LNSFDNIESLEAGLVEYIQQYNQERIKLKLKGLSPVEYreRAQSAA
 "

/note="IS3_IS150_ORF2 e-value= 1.4e-122 complete
 sequence
 hit coverage= 100%, length is 354aa with 38 gaps, 3
 stops, frame= Minus1"

CDS
 complement(877091..876193)
 /colour="255 0 0"
 /evidence=predicted
 /translation="LPKKTRCLDPGRAggARRKAQAIQGLRQVHTLSLLLEAAELSRS
 TFYYQNHVLAHPDqDEAACERIRAIYDQSKGRGYRTVTLELANQGHRTNHKRVQRL
 MGEMGLKSRVRV р--РYRSFKGAANVVVGNDLNQFHAERPNQKWTDVTEFKV--Q
 GMKLYLSPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAIKK-LSPDERPMIHSQDWQ
 YQHENYRHMLEKHSLKQSMSRRGNCLDNAAMESFFGTLKSEFFYLNSFDNIE--SLEA
 GLVEYIQQYNQЕ-RIKLKLKGLSPVEYRERAQS"

/note="IS3_IS150_ORF1 e-value= 3.1e-88 complete sequence
 hit coverage= 100%, length is 300aa with 9 gaps, 0 stops,
 frame= Minus1"

CDS
 complement(877091..876193)
 /colour="255 0 0"
 /evidence=predicted
 /translation="LPKKTRCLDPGRAggARRKAQAIQGLRQVHTLSLLLEAAELSRS
 TFYYQNHVLAHPDqDEAACERIRAIYDQSKGRGYRTVTLELANQGHRTNHKRVQRL
 MGEMGLKSRVRV р--РYRSFKGAANVVVGNDLNQFHAERPNQKWTDVTEFKV--Q
 GMKLYLSPIMDLYNGEIVAYQIKRQPVFDLVGQMLEEAIKK-LSPDERPMIHSQDWQ
 YQHENYRHMLEKHSLKQSMSRRGNCLDNAAMESFFGTLKSEFFYLNSFDNIE--SLEA
 GLVEYIQQYNQЕ-RIKLKLKGLSPVEYRERAQS"

/note="IS3_IS150_ORF1 e-value= 8e-89 complete sequence
 hit coverage= 100%, length is 300aa with 9 gaps, 0 stops,
 frame= Minus1"

CDS
 complement(877043..876184)
 /colour="255 0 0"
 /evidence=predicted
 /translation="RRKAQAIQGLRQVHTLSLLLEAAELSRSRSTFYYQNHVL--AHPDq
 DEAACERIRAIYDQSKGRGYRTVTLELA---NQGHRTNHKRVQRLMGEMGLKSRVR
 VK-РYRSFKGAANVVVGNDLNQFHAERPNQKWTDVTEFKVQ-GMKLYLSPIMDLYN
 GEIVAYQIKRQPVFDLVGQMLEEAIKKLSPDERPMIHS-----DQGWQYQHENYRHML
 EKHSLKQSMSRRGNCLDNAAMESFFGTLKSEFFY--LNSFDNIESLEAGLVEYIQQYN
 QERIKLKLKGLSPVEYreRAQSAA"

/note="IS3_IS150_ORF2 e-value= 1.9e-152 fragment hit
 coverage= 76.61%, length is 287aa with 14 gaps, 1 stops,
 frame= Minus1"

CDS
 complement(877034..876163)
 /colour="255 0 0"
 /evidence=predicted
 /translation="AQAIQGLRQVHTLSLLLEAAELSRSRSTFYYQNHVLAHPD-----
 QDEAACERIRAIYDQSKGRGYRTVTLELANQGHRTNHKRVQRLMGEMGLKSRVRV
 RYRSFKGAANVVVG-NDLNQFHAERPNQKWTDVTEFKV-QGmKLYLSPIMDLYN
 GEIVAYQIKRQPVFDLV-GQMLEEAIKKLSPDE----RPMIHSQDWQYQHENYRHML
 EKHSLKQSMSRRGNCLDNAAMESFFGTLKSEFFY---NSFDNIESLEAGLVEYIQQYN
 Q-ERIKLKLKGLSPVEYrERAQSAAxPRPSLGG"

/note="IS3_IS51_ORF1 e-value= 3.8e-39 complete sequence
 hit coverage= 100%, length is 291aa with 18 gaps, 1
 stops, frame= Minus1"

CDS
 complement(877034..876160)
 /colour="255 0 0"
 /evidence=predicted

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/translation="---AQAIQGLR-QVHTLSLLEA--AELSRS-----TFYYQNH
VLAHPDQDEAACERIRAIYDQSKG----RGYRTVTLELANQGHRTNKHKRVQRLMG
EMGLKSRVRVKRYRSFKG-AANVVVGNDLNQRFHAERPQKQWVTDVTEFKVQGMKLYL
SPIMDLYNGEIVAYQIKRQPVFDLVQGMLEEAIKKLSPD----ERPMIHSDQGWQYQ
HENYRHMLEKHSLKQSMSRRGNCLDNAAMESFFGTLKSEFFYLNSFDNIESLEAGLVE
YIQ-YYNQERIQLKLKGLSPVEYRER-AQSAAXPRPSLGHH"
/note="IS3_IS51_ORF2      e-value= 1.1e-16 complete sequence
hit coverage= 100%, length is 292aa with 25 gaps, 1
stops, frame= Minus1"
CDS complement(877031..876196)
/colour="255 0 0"
/evidence=predicted
/translation="QAIQGLRQVHTLSLLEAELSRSTFYYQNHVLAHPD---QDEA
ALCERIRAIYDQSKGRGYRTVTLELA-NQGHRTNKHKRVQRLMGEMGLKSRVRV-KRY
RSFKgAANVVVGNDLNQRFHAERPQKQWVTDVTEFKVQGMKLYLSPIMDLYNGEIVAY
QIKRQPVFDLVQGMLEEAIKKLSPDERPMIHSDQGWQYQHENYRHMLEKHSLKQSMSR
RGNCLDNAAMESFFGTLK--SEFFYLNSFDNIESLEAGLVEYIQ-YYNQERIQLKLKG
LSPVEYRERAQ"
/note="IS3_IS3_ORF1      e-value= 9.5e-76 complete sequence
hit coverage= 100%, length is 279aa with 8 gaps, 0 stops,
frame= Minus1"
CDS complement(877031..876196)
/colour="255 0 0"
/evidence=predicted
/translation="QAIQGLRQVHTLSLLEAELSRSTFYYQNHVLAHPD---QDEA
ALCERIRAIYDQSKGRGYRTVTLELA-NQGHRTNKHKRVQRLMGEMGLKSRVRV-KRY
RSFKgAANVVVGNDLNQRFHAERPQKQWVTDVTEFKVQGMKLYLSPIMDLYNGEIVAY
QIKRQPVFDLVQGMLEEAIKKLSPDERPMIHSDQGWQYQHENYRHMLEKHSLKQSMSR
RGNCLDNAAMESFFGTLK--SEFFYLNSFDNIESLEAGLVEYIQ-YYNQERIQLKLKG
LSPVEYRERAQ"
/note="IS3_IS3_ORF1      e-value= 2.5e-76 complete sequence
hit coverage= 100%, length is 279aa with 8 gaps, 0 stops,
frame= Minus1"
CDS complement(877019..876184)
/colour="255 0 0"
/evidence=predicted
/translation="GLRQVHTLSLLEAELSRSTFYYQNHV-LAHPDQDEAACERI
RAIYDQSKGRGYRTVTLELANQGHRTNKHKRVQRLMGEMGLKSRVRVKRYRSFKGAAN
VVVG-NDLNQRFHAER--PNQKWVTDVTEFKVQGMKLYLSPIMDLYNGEIVAYQIKRQ
PVFDLVQGMLEEAIKK----LSPDERPMIHSDQGWQYQHENYRHMLEKHSLKQSMSR
GNCLDNAAMESFFGTLKSEFFYLNSFDNIESLEAGLVEYIQYY-NQERIQLKLKGSP
VEYRERAQSAAX"
/note="IS3_IS3_ORF2      e-value= 5.3e-64 complete sequence
hit coverage= 100%, length is 279aa with 9 gaps, 1 stops,
frame= Minus1"
CDS complement(877019..876184)
/colour="255 0 0"
/evidence=predicted
/translation="GLRQVHTLSLLEAELSRSTFYYQNHV-LAHPDQDEAACERI
RAIYDQSKGRGYRTVTLELANQGHRTNKHKRVQRLMGEMGLKSRVRVKRYRSFKGAAN
VVVG-NDLNQRFHAER--PNQKWVTDVTEFKVQGMKLYLSPIMDLYNGEIVAYQIKRQ
PVFDLVQGMLEEAIKK----LSPDERPMIHSDQGWQYQHENYRHMLEKHSLKQSMSR
GNCLDNAAMESFFGTLKSEFFYLNSFDNIESLEAGLVEYIQYY-NQERIQLKLKGSP
VEYRERAQSAAX"
/note="IS3_IS3_ORF2      e-value= 1.5e-64 complete sequence
hit coverage= 100%, length is 279aa with 9 gaps, 1 stops,
frame= Minus1"
CDS complement(876911..876211)
/colour="255 0 0"
/evidence=predicted

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<translation="AALCERIRAIYDQSKGRYGYRTVTLELANQGHRTNHKRVQRLMG
EMGLKSRVORKYRSFKGAANVVVG-NDLNRQFHAERPNQKWVTDTEFKV-QGmKLY
LSPIMDLNGEIVAYQIKRQPVFDLV-GQMLEEAIKKLSPDE----RPMIHSQGWQY
QHENYRHMLEKHSLKQSMSRRGNCLDNAAMESFFGTLKSEFFYL---NSFDNIESLE
AGLVEYIQYYNQ-ERIKLKGLSPVEY"
/note="IS3_IS51_ORF1      e-value= 2.3e-45 fragment hit
coverage= 79.80%, length is 234aa with 12 gaps, 0 stops,
frame= Minus1"
CDS complement(876860..876334)
/colour="255 0 0"
/evidence=predicted
/translation="YGYRTVTLELANQGHRTNHKRVQRLMGEMGLKSRVORKYRSFK
G-AANVVVGNDLNQFHAERPNQKWVTDTEFKVQGMKLYLSPIMDLNGEIVAYQIK
RQPVFDLVGQMLEEAIKKLSPD----ERPMIHSQGWQYQHENYRHMLEKHSLKQSM
SRRGNCLDNAAMESFFGTLKSE"
/note="IS3_IS51_ORF2      e-value= 5.2e-32 fragment hit
coverage= 57.41%, length is 176aa with 6 gaps, 0 stops,
frame= Minus1"
CDS complement(876356..876250)
/colour="255 0 0"
/evidence=predicted
/translation="FFGTLKSEFFYLNS---FDNIESLEAGLVEYIQYYNQER"
/note="IS481 e-value= 1.2e-06 fragment hit coverage=
11.11%, length is 36aa with 3 gaps, 0 stops, frame=
Minus1"
CDS complement(504125..503017)
/colour="255 0 0"
/evidence=predicted
/translation="VQDRGGPT-----DRXVRPSGSGCCATgRVDPXSLRLEAATR
QRRCWPACRAGPERGS-APPQGXATQGHXRARHPKKSRRVL---CKGVRAKYAFMKQH
ADEFGLAAMCRMLGVHRSGYYAWLKEPASARDKDDQRLGLIKHSWLESGSVYGHRKV
TTDLR---ELGETCSRHRVARLMKSEGLRAMVGYGRRPPLSGPVGSVAKNVLARGFK
VSEPNRAWTDITYIRTY-DGFLYLAVVLDLFSRQVVGWATRPTQHTDLVLQALLAAV
WRRKPSPGLLLHS----DQGTQFTSEDWQSFREHDIVCSMSRRGNCHDNAAMESFF
QLLKRERIK--RRIYSNHEARADVFQYIEmFYNPKRRHSSNDGLSPVEFEKQYALN"
/note="IS3_IS150_ORF2      e-value= 1.2e-45 complete sequence
hit coverage= 100%, length is 370aa with 21 gaps, 4
stops, frame= Minus1"
CDS complement(503924..503020)
/colour="255 0 0"
/evidence=predicted
/translation="ARHPKKSRRVLCKgVRAKYAFMKQHADEFGLAAMCRMLGVHRSg
YYAWLKePASARDKDDQRLGLIKHSWLESGSVYGHRKVTTDLRELGETCSRHRVARL
MKSEGLRAMVGYGR--RPRPLSGPVGSVAKNVLARGFKVSEPNRAWTDITYIRT--Y
DGFLYLAVVLDLFSRQVVGWATRPTQHTDLVLQALLAAVWR-RKPSPGLLLHSDQGTQ
FTSEDWQSFREHDIVCSMSRRGNCHDNAAMESFFQLLKRERIKRRIYSNHD--EARA
DVFQYIEMFYNPKRRHSSNDGLSPVEFEKQYAL"
/note="IS3_IS150_ORF1      e-value= 1.4e-57 complete sequence
hit coverage= 100%, length is 302aa with 7 gaps, 0 stops,
frame= Minus1"
CDS complement(503897..503020)
/colour="255 0 0"
/evidence=predicted
/translation="VLCKgVRAKYAFMKQHADEFGLAAMCRMLGVHRSgYYAWLKePA
SARDKDDQRLGLIKHSWLESGSVYGHRKVTTDLRELGETCSRHRVARLMKSEGLRAM
VGYGR--RPRPLSGPVGSVAKNVLARGFKVSEPNRAWTDITYIRT--YDGFLYLAVV
LDLFSRQVVGWATRPTQHTDLVLQALLAAVWR-RKPSPGLLLHSDQGTQFTSEDWQSF
LREHDIVCSMSRRGNCHDNAAMESFFQLLKRERIKRRIYSNHD--EARADVFQYIEMF
YNPKRRHSSNDGLSPVEFEKQYAL"
/note="IS3_IS150_ORF1      e-value= 5.1e-57 fragment hit
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coverage= 97.06%, length is 293aa with 7 gaps, 0 stops,
frame= Minus1"
CDS complement(503888..502981)
/colour="255 0 0"
/evidence=predicted
/translation="KGVRAKYAFMKQHAD--EGLAAMCRMLGVH---RSGYYAWLKE
PASARDKDDQRLLGLIKHSWLESGS----VYGHRKVTDLRELGETCSRHRVARLMK
SEGLRAMVGYGRRPRPLSGPVGSVAKNVLARGFKVSEPNRAWVTDITYIRTYDGFLYL
AVVLDLFSRQVVGWATRPTQHTDLVLQALLAAVWRRKPS----PGLLLHSDQGTQFT
SEDWQSFLREHDIVCSMSRRGNCHDNAAMESFFQOLLKRERIKRRIYSNHDEARADVFO
YIEMFYNPKRRHSSNDGLSPVEFEKQYALNGxRLSRKPWAIQ"
/note="IS3_IS51_ORF2      e-value= 1.4e-134 complete

sequence hit coverage= 100%, length is 303aa with 15 gaps, 0
stops, frame= Minus1"
CDS complement(503870..503026)
/colour="255 0 0"
/evidence=predicted
/translation="YAFMKQHADEFGLAAMCRMLGVHRSGYYAWL----KEPASARD
KDDQRLLGLIKHSWLESGSVYGHRKVTDLRELGETCSRHRVARLMKSEGLRAMVGYG
RRPRPLSGPVGSVAKNVLARGFKVSEPNRAWVTDITYIRTYDGFLYLAVVLDLFSRQV
VGWATRPTQHTDLV-LQALLAAVWRRKPS----GLLLHSDQGTQFTSEDWQSFLREH
DIVCSMSRRGNCHDNAAMESFFQOLLKRERIKR---RIYSNHDEARADVFOYIEMFYN
PKRRHSSNDGLSPVEFEKQY"
/note="IS3_IS51_ORF1      e-value= 3.9e-110 fragment hit
coverage= 96.42%, length is 282aa with 14 gaps, 0 stops,
frame= Minus1"
CDS complement(503870..502993)
/colour="255 0 0"
/evidence=predicted
/translation="YAFMKQHADEFGLAAMCRMLGVHRSGYYAWL----KEPASARD
KDDQRLLGLIKHSWLESGSVYGHRKVTDLRELGETCSRHRVARLMKSEGLRAMVGYG
RRPRPLSGPVGSVAKNVLARGFKVSEPNRAWVTDITYIRTYDGFLYLAVVLDLFSRQV
VGWATRPTQHTDLV-LQALLAAVWRRKPS----GLLLHSDQGTQFTSEDWQSFLREH
DIVCSMSRRGNCHDNAAMESFFQOLLKRERIKR---RIYSNHDEARADVFOYIEMFYN
PKRRHSSNDGLSPVEFEKQY"
/note="IS3_IS51_ORF1      e-value= 3.7e-108 complete

sequence hit coverage= 100%, length is 293aa with 14 gaps, 1
stops, frame= Minus1"
CDS complement(503867..503023)
/colour="255 0 0"
/evidence=predicted
/translation="AFMKQHADEFGLAAMCRMLGVHRSGYYAWLKE--PASARDKDDQ
RLLGLIKHSWLESGSVYGHRKVTDLR-ELGETCSRHRVARLMKSEGLRAMVGYG-RR
PRPLSgPVGSVAKNVLARGFKVSEPNRAWVTDITYIRTYDGFLYLAVVLDLFSRQVVG
WATRPTQHTDLVLQALLAAVWRRKPSGPLLHSDQGTQFTSEDWQSFLREHDIVCSMS
RRGNCHDNAAMESFFQOLLK--RERIKRRIYSNHDEARADVFOYIEMFYNPKRRHSSND
GLSPVEFEKQYA"
/note="IS3_IS3_ORF1      e-value= 1.9e-94 complete sequence
hit coverage= 100%, length is 282aa with 6 gaps, 0 stops,
frame= Minus1"
CDS complement(503867..503023)
/colour="255 0 0"
/evidence=predicted
/translation="AFMKQHADEFGLAAMCRMLGVHRSGYYAWLKE--PASARDKDDQ
RLLGLIKHSWLESGSVYGHRKVTDLR-ELGETCSRHRVARLMKSEGLRAMVGYG-RR
PRPLSgPVGSVAKNVLARGFKVSEPNRAWVTDITYIRTYDGFLYLAVVLDLFSRQVVG
WATRPTQHTDLVLQALLAAVWRRKPSGPLLHSDQGTQFTSEDWQSFLREHDIVCSMS
RRGNCHDNAAMESFFQOLLK--RERIKRRIYSNHDEARADVFOYIEMFYNPKRRHSSND
GLSPVEFEKQYA"

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GLSPVEFEKQYA"
/note="IS3_IS3_ORF1      e-value= 4.9e-95 complete sequence
hit coverage= 100%, length is 282aa with 6 gaps, 0 stops,
frame= Minus1"
CDS
complement(503855..503011)
/colour="255 0 0"
/evidence=predicted
/translation="QHADEGLAAMCRMLGVHRSGYYAWLKEPASARDKDDQRLLGLI
KHSWLESGSVYGHRKVTTDLRELGETCSRHRVARLMKSEGLRAMvGYGRRPRPLSGPV
GSVAK-NVLARGFKVSE--PNRAWVTDITYIRTYDGFLYLAVVLDLFSRQVVGWATRP
TQHTDVLQALLAAAVWR---RKPSPGLLLHSDQGTQFTSEDWQSFLREHDIVCSMSR
RGNCHDNAAMESFFQOLLKRERIKRRIYSNHDEARADVFOYIEMFYNPKRRHSSNDGLS
PVEFEKQYALNGX"
/note="IS3_IS3_ORF2      e-value= 7.1e-102 complete
sequence
hit coverage= 100%, length is 282aa with 7 gaps, 1 stops,
frame= Minus1"
CDS
complement(503855..503011)
/colour="255 0 0"
/evidence=predicted
/translation="QHADEGLAAMCRMLGVHRSGYYAWLKEPASARDKDDQRLLGLI
KHSWLESGSVYGHRKVTTDLRELGETCSRHRVARLMKSEGLRAMvGYGRRPRPLSGPV
GSVAK-NVLARGFKVSE--PNRAWVTDITYIRTYDGFLYLAVVLDLFSRQVVGWATRP
TQHTDVLQALLAAAVWR---RKPSPGLLLHSDQGTQFTSEDWQSFLREHDIVCSMSR
RGNCHDNAAMESFFQOLLKRERIKRRIYSNHDEARADVFOYIEMFYNPKRRHSSNDGLS
PVEFEKQYALNGX"
/note="IS3_IS3_ORF2      e-value= 2e-102 complete sequence
hit
coverage= 100%, length is 282aa with 7 gaps, 1 stops,
frame= Minus1"
CDS
complement(503843..503017)
/colour="255 0 0"
/evidence=predicted
/translation="FGLAAMCRMLGVH---RSGYYAWLKEPASARDKDDQRLLGLIKH
SWLESGS----VYGHRKVTTDLRELGETCSRHRVARLMKSEGLRAMvGYGRRPRPLS
GPVGSVAKNVLARGFKVSEPNRAWVTDITYIRTYDGFLYLAVVLDLFSRQVVGWATRP
TQHTDVLQALLAAAVWRRKPS----PGLLLHSDQGTQFTSEDWQSFLREHDIVCSMSR
RGNCHDNAAMESFFQOLLKRERIK--RRIYSNHDEARADVFOYIEMFYNPKRRHSSNDGLS
PVEFEKQYALN"
/note="IS3_IS150_ORF2      e-value= 1.9e-74 fragment hit
coverage= 73.52%, length is 276aa with 11 gaps, 0 stops,
frame= Minus1"
CDS
complement(503840..503023)
/colour="255 0 0"
/evidence=predicted
/translation="FGLAAMCRMLGVH---RSGYYAWLKEPASARDKDDQRLLGLIKH
SWLESGS----VYGHRKVTTDLRELGETCSRHRVARLMKSEGLRAMvGYGRRPRPLS
GPVGSVAKNVLARGFKVSEPNRAWVTDITYIRTYDGFLYLAVVLDLFSRQVVGWATRP
TQHTDVLQALLAAAVWRRKPS----PGLLLHSDQGTQFTSEDWQSFLREHDIVCSMSR
RGNCHDNAAMESFFQOLLKRERIKRRIYSNHDEARADVFOYIEMFYNPKRRHSSNDGL
SPVEFEKQYA"
/note="IS3_IS51_ORF2      e-value= 7.1e-152 fragment hit
coverage= 90.22%, length is 273aa with 13 gaps, 0 stops,
frame= Minus1"
CDS
complement(4482787..4481874)
/colour="255 0 0"
/evidence=predicted
/translation="NARLTPFSRELLVRRITEQGLRPEAAQACGVSVRTAYKWLARY
RAEGLIGLQRSSRPSRSPHGTPEALVEQIVQRR-RQRQTYLTISKALG-----
VAHSTISRLMRRRGLNRLCLLDPPK-----KAVR-----YEYDSPGGLLHLDIKK

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-----LGNFHRPGHRVDPnRRGNAGGGGWGYVHVAIDDHSRVAFSSVHTDEKGSTACQ
ALLAALAYYKTLGVT-FQRVLTDNGACYRSG---VFARLVASLGMKHYRTKPYTPRT
NGKAERFIQTSLREWAYACE---YASSEQRDAVLPEWLHYYNWRPHM--GIGSQPPI
SRIPLNNVV"
/note="IS481 e-value= 5.6e-93 fragment hit coverage=
97.44%, length is 305aa with 38 gaps, 0 stops, frame=
Minus2"
CDS complement(4482787..4481847)
/colour="255 0 0"
/evidence=predicted
/translation="NARLTIFSRELLVRRITEQGLRPEAAQACGVSVRTAYKWLARY
RAEGLIGLQNRRSRPSRSPHGTPEALVEQIVQRR-RQRQTYLTISKALG-----
VAHSTISRLMRRRGLNRCLLDPPK-----KAVR-----YEYDSPGGLLHLDIKK
-----LGNFHRPGHRVDPnRRGNAGGGGWGYVHVAIDDHSRVAFSSVHTDEKGSTACQ
ALLAALAYYKTLGVT-FQRVLTDNGACYRSG---VFARLVASLGMKHYRTKPYTPRT
NGKAERFIQTSLREWAYACE---YASSEQRDAVLPEWLHYYNWRPHM--GIGSQPPI
SRIPLNNVVGHLNXQSTL"
/note="IS481 e-value= 1.5e-93 complete sequence hit
coverage= 100%, length is 314aa with 38 gaps, 1 stops,
frame= Minus2"
CDS complement(4482733..4482465)
/colour="255 0 0"
/evidence=predicted
/translation="QGLRPEEEAQACGVSVRTAYKWLARYRAEG---LIGLQ--NRSS
RPSRSPHGTPEALVEQIVQRR-----RQRQTYLTISKALG-----VAHSTISRLM
RRRGLN"
/note="IS630 e-value= 8.1e-07 fragment hit coverage=
28.72%, length is 90aa with 18 gaps, 0 stops, frame=
Minus2"
CDS complement(4482166..4481934)
/colour="255 0 0"
/evidence=predicted
/translation="RVLTNDNGACYRSGVFARLVASLGMKHYRTKPYTPRTNGKAERFI
QTSLREWAY--ACEYASSEQRDAVLPEWLHYYNWRH"
/note="IS3_IS150_ORF2 e-value= 2.5e-08 fragment hit
coverage= 20.57%, length is 78aa with 2 gaps, 0 stops,
frame= Minus2"
CDS complement(4037740..4036800)
/colour="255 0 0"
/evidence=predicted
/translation="NARLTVHSRALLIRRILHEGLRPEEEAQACGVSVRTAYKWLARF
RQFGAPGLENRSSRPHQTPHATPAPVIEQIKEHR-RKQTYLTISKALG-----
VGHSTISRLMRAHGLNRLCRLEPPK-----EVIR-----YEYDQPGGLLHLDIKK
-----LGNFQRPGRHTDAKRRGNAAGGGWGYVHVAIDDHSRVAFSSVHPNEQAETACQ
ALLGALQYYASLGIT-FKRILTDNGACYRST---AFAKLLKSLGIKHIRTCKPYTPRT
NGKAERFIQTSLREWAYARE---YASSDQRNSVLTQWLHHYNWRPHM--GIGGQPPI
SRVLLNNVVGHLHSXSTAF"
/note="IS481 e-value= 2.4e-94 complete sequence hit
coverage= 100%, length is 314aa with 38 gaps, 1 stops,
frame= Minus2"
CDS complement(4037740..4036800)
/colour="255 0 0"
/evidence=predicted
/translation="NARLTVHSRALLIRRILHEGLRPEEEAQACGVSVRTAYKWLARF
RQFGAPGLENRSSRPHQTPHATPAPVIEQIKEHR-RKQTYLTISKALG-----
VGHSTISRLMRAHGLNRLCRLEPPK-----EVIR-----YEYDQPGGLLHLDIKK
-----LGNFQRPGRHTDAKRRGNAAGGGWGYVHVAIDDHSRVAFSSVHPNEQAETACQ
ALLGALQYYASLGIT-FKRILTDNGACYRST---AFAKLLKSLGIKHIRTCKPYTPRT
NGKAERFIQTSLREWAYARE---YASSDQRNSVLTQWLHHYNWRPHM--GIGGQPPI
SRVLLNNVVGHLHSXSTAF"

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/note="IS481 e-value= 6.4e-95 complete sequence hit
coverage= 100%, length is 314aa with 38 gaps, 1 stops,
frame= Minus2"
CDS complement(4037119..4036854)
/colour="255 0 0"
/evidence=predicted
/translation="RILTDNGACYRSTAFAKLLKSLGIKHIRTKPYTPRTNGKAERFI
QTSLREWAY--AREYASSDQRNSVLTQWLHHYNWHRPHMGIGGQPPI"
/note="IS3_IS150_ORF2 e-value= 1.8e-10 fragment hit
coverage= 23.39%, length is 89aa with 2 gaps, 0 stops,
frame= Minus2"
CDS complement(4036924..4036857)
/colour="255 0 0"
/evidence=predicted
/translation="VLTQWLHHYNWHRPHMGIGGQPPI"
/note="IS3_IS407_ORF2 e-value= 4.1e-07 fragment hit
coverage= 6.69%, length is 23aa with 0 gaps, 0 stops,
frame= Minus2"
CDS complement(2521012..2520870)
/colour="255 0 0"
/evidence=predicted
/translation="KRYTDEFKIEAVRQIVEYGRPVAEVAERLGVSIHSLYGWKRQOG
KGDV"
/note="IS3_IS407_ORF1 e-value= 7.7e-06 fragment hit
coverage= 55.81%, length is 48aa with 0 gaps, 0 stops,
frame= Minus2"
CDS complement(2520859..2520732)
/colour="255 0 0"
/evidence=predicted
/translation="VEQDQNAEVRRRLKAELRRVTEERDILK--KAAAYFAKGXEQSTPS"
/note="IS3_IS51_ORF1 e-value= 3.2e-08 fragment hit
coverage= 14.66%, length is 43aa with 2 gaps, 1 stops,
frame= Minus2"
CDS complement(2508721..2507643)
/colour="255 0 0"
/evidence=predicted
/translation="VQARCGXAGQPAGRQLCPGGPGAGDPGC-IADPLEAGGPEPGpg
g1RWHRDAPGRGTGAAQARAGPGE-EGAGFFARSGDVLCQGIILR-----YQVI
ERCRDEFPVRLMCRLRVSASGYYDWSKRLPSARERDNQRLGRIRELHEDSRGTLGA
GRMHEDLIA---EEGETASLNRVARLMATDGLQGWPRPK----RRGQRGKPAItpgv
RNLLERDFTALEPETRWVTDITELKTR-QGKLYLCIVLDLFQDQVVGVWSMHHRQDRQM
VIRAVQMAWQQRQGSHPLILHS----DRGSQFRSGDYQRYLAANGLVCSMSAVGHCG
DNAACEGFFGLLKRERVY--RMTYPTLDAARADVFEYIERFHNP-----RRVARQ"
/note="IS3_IS150_ORF2 e-value= 1.6e-25 complete sequence
hit coverage= 100%, length is 360aa with 39 gaps, 1
stops, frame= Minus2"
CDS complement(2508514..2507616)
/colour="255 0 0"
/evidence=predicted
/translation="AGFFARSGDVLCQgIILRYQVIERCRDEFPVRLMCRLRVSASG
YYDWSKRLPSARERDnQRLLGRIRELHEDSRGTLGAGRMHEDLAEGETASLNRVARL
MATDGLQGWPRPKR--RGQRGKPAItpgvNLLERDFTALEPETRWVTDITELKT--R
QGKLYLCIVLDLFQDQVVGVWSMHHRQDRQMIRAVQMAWQ-RQGSHPLILHSDRGS
QFRSGDYQRYLAANGLVCSMSAVGHCGDNAACEGFFGLLKRERVYRMTYPTLD--AAR
ADVFEYIERFHNP---RMRRRVARQDQKFSALLQ"
/note="IS3_IS150_ORF1 e-value= 1.5e-33 complete sequence
hit coverage= 100%, length is 300aa with 10 gaps, 0
stops, frame= Minus2"

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CDS complement(2508478..2507577)
/colour="255 0 0"
/evidence=predicted
/translation="QGIIILRYQVIERCRD--EFPVRLMCRCLRVSAASGYYDWSKR
LPSARERDNQRLLGRIRELHEDSRG----TIGAGRMHEDLAEEGETASLNRAVLMA
TDGLQGW--PRPKRRGQRGPALTPPgvrNLLERDFTALEPETRWVTDITELKTRQGK
LYLCIVLDLFQDQVVGVWSMHHRQDRQMVIRAVQMAWQRQGS----HPLILHSDRG
QFRSGDYQRYLAANGLVCSMSAVGHCGDNAACEGFFGLLKRERVYRMTYPTLDAARAD
VFEYIERFHNPmRRRVARQD---QKFSALLQPSVISGXNPNCLR"
/note="IS3_IS51_ORF2      e-value= 7.4e-58 complete sequence
hit coverage= 100%, length is 301aa with 20 gaps, 1
stops, frame= Minus2"
CDS complement(2508460..2507667)
/colour="255 0 0"
/evidence=predicted
/translation="YQVIERCRDEFPVRLMCRCLRVSAASGYYDWS----KRLPSARE
RDNQRLLGRIRELHEDSRGTLGAGRMHEDLAEEGETASLNRAVLMATDGLQGWPRPK
RRGQRgKPALTPPGVRNLLERDFTALEPETRWVTDITELKTRQGKLYLCIVLDLFQDQ
VVGWSMHHRQDRQMV-IRAVQMAWQRQGS----PLILHSDRGSQFRSGDYQRYLAA
NGLVCSMSAVGHCGDNAACEGFFGLLKRERVYR---MTYPTLDAARADVFEYIERFH
N-PR"
/note="IS3_IS51_ORF1      e-value= 1.7e-73 fragment hit
coverage= 90.88%, length is 265aa with 15 gaps, 0 stops,
frame= Minus2"
CDS complement(2508460..2507601)
/colour="255 0 0"
/evidence=predicted
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RDNQRLLGRIRELHEDSRGTLGAGRMHEDLAEEGETASLNRAVLMATDGLQGWPRPK
RRGQRgKPALTPPGVRNLLERDFTALEPETRWVTDITELKTRQGKLYLCIVLDLFQDQ
VVGWSMHHRQDRQMV-IRAVQMAWQRQGS----PLILHSDRGSQFRSGDYQRYLAA
NGLVCSMSAVGHCGDNAACEGFFGLLKRERVYR---MTYPTLDAARADVFEYIERFH
NPRMRRRVARQDQK-----FSALLQPSVIS"
/note="IS3_IS51_ORF1      e-value= 7.6e-67 complete sequence
hit coverage= 100%, length is 287aa with 21 gaps, 0
stops, frame= Minus2"
CDS complement(2508457..2507685)
/colour="255 0 0"
/evidence=predicted
/translation="QVIERCRDEFPVRLMCRCLRVSAASGYYDWSKRLPSARERDNQRL
LGRIRELHEDSRGTLGAGRMHEDLA---EEGETASLNRAVLMATDGLQGWPRPK---
--RRGQRGKPAltpggvRNLLERDFTALEPETRWVTDITELKTR-QGKLYLCIVLDLF
DQRVVGVWSMHHRQDRQMVIRAVQMAWQRQGSHPYLHS----DRGSQFRSGDYQRY
LAANGLVCSMSAVGHCGDNAACEGFFGLLKRERVY--RMTYPTLDAARADVFEYIE"
/note="IS3_IS150_ORF2      e-value= 1.7e-58 fragment hit
coverage= 68.89%, length is 258aa with 16 gaps, 0 stops,
frame= Minus2"
CDS complement(2508457..2507664)
/colour="255 0 0"
/evidence=predicted
/translation="QVIERCRDEFPVRLMCRCLRVSAASGYYDWSKR--LPSARERDNQ
RLLGRIRELHEDSRGTLGAGRMHEDLA-EEGETASLNRAVLMATDGLQGWPRPKRRG
QRGKpALTpPGVRNLLERDFTALEPETRWVTDITELKTRQGKLYLCIVLDLFQDQVVG
WSMHHRQDRQMVIRAVQMAWQRQGSHPYLHSDRGSQFRSGDYQRYLAANGLVCSMS
AVGHCGDNAACEGFFGLLK--RERVYRMTYPTLDAARADVFEYIERFHNP-RM"
/note="IS3_IS3_ORF1      e-value= 4e-75 fragment hit
coverage=
94.06%, length is 265aa with 6 gaps, 0 stops, frame=
Minus2"
CDS complement(2508457..2507625)

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/colour="255 0 0"
/evidence=predicted
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WSMHHRQDRQMIRAVQMAWQROGSPLILHSDRGSQFRSGDYQRYLAANGLVCSMS
AVGHCGDNAACEGFFGLLK--RERVYRMTYPTLDAARADVFEYIERFHNP-RMRRRVA
----RQDQKFS"
/note="IS3_IS3_ORF1      e-value= 2.4e-72 complete sequence
hit coverage= 100%, length is 278aa with 10 gaps, 0
stops, frame= Minus2"
CDS
complement(2508445..2507649)
/colour="255 0 0"
/evidence=predicted
/translation="RCRDEFPVRLMCRCLRVSASGYYDWSKRLPSARERDNQRLLGRI
RELHEDSRGTLGAGRMHEDLAEEGETASLNRVARLMATDGLQGWPRPKRRGQRGK--P
ALTPPgvrNLLERDFTALE--PETRWVTIDITELKTRQGKLYLCIVLDLFDQRVVGWSM
HHRQDRQMIRAVQMAWQ---RQGSHPPLILHSDRGSQFRSGDYQRYLAANGLVCSM
SAVGHCVDNAACEGFFGLLKRERVYRMTYPTLDAARADVFEYIERFHNP-RMRRRVA"
/note="IS3_IS3_ORF2      e-value= 2.2e-69 fragment hit
coverage= 93.75%, length is 266aa with 8 gaps, 0 stops,
frame= Minus2"
CDS
complement(2508445..2507628)
/colour="255 0 0"
/evidence=predicted
/translation="RCRDEFPVRLMCRCLRVSASGYYDWSKRLPSARERDNQRLLGRI
RELHEDSRGTLGAGRMHEDLAEEGETASLNRVARLMATDGLQGWPRPKRRGQRGK--P
ALTPPgvrNLLERDFTALE--PETRWVTIDITELKTRQGKLYLCIVLDLFDQRVVGWSM
HHRQDRQMIRAVQMAWQ---RQGSHPPLILHSDRGSQFRSGDYQRYLAANGLVCSM
SAVGHCVDNAACEGFFGLLKRERVYRMTYPTLDAARADVFEYIERFHNP-RMRRRVA--
-----RQDQKFS"
/note="IS3_IS3_ORF2      e-value= 2.6e-66 complete sequence
hit coverage= 100%, length is 273aa with 19 gaps, 0
stops, frame= Minus2"
CDS
complement(2508424..2507670)
/colour="255 0 0"
/evidence=predicted
/translation="VRLMCRCLRVS---ASGYYDWSKRLPSARERDNQRLLGRIELH
EDSRG----TIGAGRMHEDLAEEGETASLNRVARLMATDGLQGW--PRPKRRGQRGK
PALTPPgvrNLLERDFTALEPETRWVTIDITELKTRQGKLYLCIVLDLFDQRVVGWSM
HRQDRQMIRAVQMAWQROGS----HPLILHSDRGSQFRSGDYQRYLAANGLVCSM
SAVGHCVDNAACEGFFGLLKRERVYRMTYPTLDAARADVFEYIERFHNP"
/note="IS3_IS51_ORF2      e-value= 1.5e-73 fragment hit
coverage= 83.28%, length is 252aa with 15 gaps, 0 stops,
frame= Minus2"
CDS
complement(2508394..2507673)
/colour="255 0 0"
/evidence=predicted
/translation="SASGYYDWSKRLPSARERDnQRLLGRIELHEDSRGTLGAGRMH
EDLAEEGETASLNRVARLMATDGLQGWPRPKR--RGQRGKPALTGGVrNLLERDFTA
LEPETRWVTIDITELK--RQGKLYLCIVLDLFDQRVVGWSMHHRQDRQMIRAVQMAV
WQ-RQGSHPPLILHSDRGSQFRSGDYQRYLAANGLVCSMSAVGHCGDNAACEGFFGLLK
RERVYRMTYPTLD--AARADVFEYIERFH"
/note="IS3_IS150_ORF1      e-value= 2.4e-37 fragment hit
coverage= 80.39%, length is 241aa with 7 gaps, 0 stops,
frame= Minus2"
CDS
complement(2447827..2447712)
/colour="255 0 0"
/evidence=predicted
/translation="KQYTDEFKAEAVKQVTERGFAVAEVAKRLGVSSHSLYQW"

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/note="IS3_IS407_ORF1 e-value= 7e-06 fragment hit
coverage= 45.35%, length is 39aa with 0 gaps, 0 stops,
frame= Minus2"
CDS complement(2447419..2446239)
/colour="255 0 0"
/evidence=predicted
/translation="FLQLRSLKTLEILTSEDS-YVVKAEG-----VNQW
VTCPLCKTGCLHGHGSQEQSFDTPTHGKPVVIFIQRRRYRCTSCTKT1FEPVADLDG
KRQATARLVRVYIRDQFSK--TFAALAREVAVEEKTVRHFDDFIEEVEAKTQFRTPR
VLGIDELKIIG---QYRAMITNVERK---TVFDIRPSRAKAEMLMPYFR---DLRDK
DSVEWVAMDMYHVYRQVVRATLPQARIVVDRFHIQRMANDALEKLR---KRIRK---
-----DLSTR-----QRLKLKDERFLLLKRQHDLTGR-DMDRMREWFO
--QFPLLSEAHALKEGFLSIWDQKTRPAAEAACAKWQANIPTELAATFKDLTTAVHNW
HDEIFA-YFEQPITNAYTESVNRAVKDMNRMGRGYS-FEVLRARMLYdKKARKDGSVI
ETVL"
/note="ISL3 e-value= 1.1e-43 complete sequence hit
coverage= 100%, length is 394aa with 60 gaps, 0 stops,
frame= Minus2"
CDS complement(2447329..2446284)
/colour="255 0 0"
/evidence=predicted
/translation="TCPLCKTGCLHGHGSQEQSFDTPTHGKPVVIFIQRRRYRCTSC
TKTLFEPVADLDGKROQATARLVRVYIRDQFSK--TFAALAREVAVEEKTVRHFDDFI
EEVEAKTQFRTPRVLGIDELKIIG---QYRAMITNVERK---TVFDIRPSRAKAEML
MPYFR---DLRDKDSVEWVAMDMYHVYRQVVRATLPQARIVVDRFHIQRMANDALEKL
RKRIRKDLSTRQRLKLKDERFLLLKRQHDLTGRDMDRMREWFOQFPLLSEAHALKEGF
LSI-WDQKTRPAAEAACAKWQANIPTELAATFKDLTTAVHNWHDEIFAYFEQPI--TN
AYTESVNRAVKDMNRMGRGYSFEVLRARMLY"
/note="ISL3 e-value= 5.3e-50 fragment hit coverage=
80.49%, length is 349aa with 16 gaps, 0 stops, frame=
Minus2"
CDS complement(2023897..2023779)
/colour="255 0 0"
/evidence=predicted
/translation="PPEQREVLQLRLDQEELSLEEIGQITGVGRETAKSRLRYAM"
/note="IS21_ORF1 e-value= 2.4e-06 fragment hit coverage=
7.62%, length is 40aa with 0 gaps, 0 stops, frame=
Minus2"
CDS complement(1143877..1142961)
/colour="255 0 0"
/evidence=predicted
/translation="NGIGIDVSKRRLDIGTTDGQT-----LQVSNSPSGYAELSTWL
STRP-----AIQIVLEATGGYEQTVLDFLHKA---GHPVIRANALRARRLA-QGLGKV
AKTDRLDALVLAQMA--ALVELPSYQPLEPW---QRKLREFVRARRQTMQALTVARQ
QQEMVTDRELRRQMQG-----
-----NIIRLQTLVERLGKQISEQVAQ-QPQLAVL
KS-----MKGVGPAQAVLASYLP-ELGQISGK-AIASLGVVAPISHDSG-AMR
GRRSIHG-GRAEIROVLYMAAMSAMRHEPRLRDFYRSLRARGK---EGKVAIVAVMRK
MLVILNARVRDAE--NGLVPAXGQ"
/note="IS110 e-value= 3.4e-46 complete sequence hit
coverage= 100%, length is 306aa with 110 gaps, 1 stops,
frame= Minus2"
CDS complement(1143877..1142994)
/colour="255 0 0"
/evidence=predicted
/translation="NGIGIDVSKRRLDIGTTDGQT-----LQVSNSPSGYAELSTWL
STRP-----AIQIVLEATGGYEQTVLDFLHKA---GHPVIRANALRARRLA-QGLGKV
AKTDRLDALVLAQMA--ALVELPSYQPLEPW---QRKLREFVRARRQTMQALTVARQ
QQEMVTDRELRRQMQG-----
-----NIIRLQTLVERLGKQISEQVAQ-QPQLAVL

KS-----MKGVGPALQAVLASYLP-ELGQISGK-AIASLGVAPI SHDSG-AMR
 GRRSIHG-GRAEIROVLYMAAMSAMRHEPRLRDFYRSLRARGK---EGKVAIVAVMRK
 MLVILNARVRD"
 /note="IS110 e-value= 1e-48 fragment hit coverage= 96.88%, length is 295aa with 108 gaps, 0 stops, frame= Minus2"
 CDS complement(730597..729681)
 /colour="255 0 0"
 /evidence=predicted
 /translation="NGIGIDVSKRRLDIGTTDGQT-----LQVSNSPSGYAELSTWL
 STRP----AIQIVLEATGGYEQTVLDFLHKA---GHPVIRANALRARRLA-QGLGKV
 AKTDRLDALVLAQMA--ALVELPSYQPLEPW---QRKLREFVRARRQTMQALTVARQ
 QQEMVTDRELRRQMQG-----
 -----NIIRLQTLVERLGKQISEQVAQ-QPQLAVL
 KS-----MKGGGPALQAVLASYLP-ELGQISGK-AIASLGVAPI SHDSG-AMR
 GRRSIHG-GRAEIROVLYMAAMSAMRHEPRLRDFYRSLRARGK---EGKVAIVAVMRK
 MLVILNARVRDAE--NGLVPAXGQ"
 /note="IS110 e-value= 2.5e-43 complete sequence hit coverage= 100%, length is 306aa with 110 gaps, 1 stops, frame= Minus2"
 CDS complement(730597..729714)
 /colour="255 0 0"
 /evidence=predicted
 /translation="NGIGIDVSKRRLDIGTTDGQT-----LQVSNSPSGYAELSTWL
 STRP----AIQIVLEATGGYEQTVLDFLHKA---GHPVIRANALRARRLA-QGLGKV
 AKTDRLDALVLAQMA--ALVELPSYQPLEPW---QRKLREFVRARRQTMQALTVARQ
 QQEMVTDRELRRQMQG-----
 -----NIIRLQTLVERLGKQISEQVAQ-QPQLAVL
 KS-----MKGGGPALQAVLASYLP-ELGQISGK-AIASLGVAPI SHDSG-AMR
 GRRSIHG-GRAEIROVLYMAAMSAMRHEPRLRDFYRSLRARGK---EGKVAIVAVMRK
 MLVILNARVRD"
 /note="IS110 e-value= 5.3e-46 fragment hit coverage= 96.88%, length is 295aa with 108 gaps, 0 stops, frame= Minus2"
 CDS complement(687505..686589)
 /colour="255 0 0"
 /evidence=predicted
 /translation="NGIGIDVSKRRLDIGTTDGQT-----LQVSNSPSGYAELSTWL
 STRP----AIQIVLEATGGYEQTVLDFLHKA---GHPVIRANALRARRLA-QGLGKV
 AKTDRLDALVLAQMA--ALVELPSYQPLEPW---QRKLREFVRARRQTMQALTVARQ
 QQEMVTDRELRRQMQG-----
 -----NIIRLQTLVERLGKQISEQVAQ-QPQLAVL
 KS-----MKGVGPALQAVLASYLP-ELGQISGK-AIASLGVAPI SHDSG-AMR
 GRRSIHG-GRAEIROVLYMAAMSAMRHEPRLRDFYRSLRARGK---EGKVAIVAVMRK
 MLVILNARVRDAE--NGLVPAXGQ"
 /note="IS110 e-value= 3.4e-46 complete sequence hit coverage= 100%, length is 306aa with 110 gaps, 1 stops, frame= Minus2"
 CDS complement(687505..686622)
 /colour="255 0 0"
 /evidence=predicted
 /translation="NGIGIDVSKRRLDIGTTDGQT-----LQVSNSPSGYAELSTWL
 STRP----AIQIVLEATGGYEQTVLDFLHKA---GHPVIRANALRARRLA-QGLGKV
 AKTDRLDALVLAQMA--ALVELPSYQPLEPW---QRKLREFVRARRQTMQALTVARQ
 QQEMVTDRELRRQMQG-----
 -----NIIRLQTLVERLGKQISEQVAQ-QPQLAVL
 KS-----MKGVGPALQAVLASYLP-ELGQISGK-AIASLGVAPI SHDSG-AMR
 GRRSIHG-GRAEIROVLYMAAMSAMRHEPRLRDFYRSLRARGK---EGKVAIVAVMRK
 MLVILNARVRD"
 /note="IS110 e-value= 1e-48 fragment hit coverage="

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96.88%, length is 295aa with 108 gaps, 0 stops, frame=
Minus2"
CDS complement(504142..504000)
/colour="255 0 0"
/evidence=predicted
/translation="KRYTDEFKIEAVRQIVEYGRPVAEVAERLGVIHSLYGWKRQOG
KGDV"
/note="IS3_IS407_ORF1      e-value= 7.7e-06 fragment hit
coverage= 55.81%, length is 48aa with 0 gaps, 0 stops,
frame= Minus2"
CDS complement(503989..503862)
/colour="255 0 0"
/evidence=predicted
/translation="VEQDQNAEVRRLKAELRRVTEERDILK--KAAAYFAKGXEQSTP
S"
/note="IS3_IS51_ORF1      e-value= 3.2e-08 fragment hit
coverage= 14.66%, length is 43aa with 2 gaps, 1 stops,
frame= Minus2"
CDS complement(370078..369171)
/colour="255 0 0"
/evidence=predicted
/translation="FGIGIDVSKATLDVAVHGEQ-----FRQFSNDKRGFVRLIRWL
KTWP-----IKQVVLEASGGYERAALDVLHAA---GLPMVRINPARARRFAQGT-GRA
AKTDRLDATVLAQMAHLLPLTRYVP--PAPW---QORLAEFAQCRRQLVQMRVSEMQR
LRRLVDPDLIA-----
-----MKQRHIAQLSDDLKQLDKAIAEQLEGQPGW
KNIGA-----LKGVGPILISTLACELP-ELGSLGSK-AIASLVGLAPMNRESG-TWO
GXRRISG-GRAVVREALYMAALTAIRYEPRLRAFYAGLKAKGK---ASKVALVAVMRK
MLVILNARKR----DAEVALGCP"
/note="IS110 e-value= 6.9e-48 complete sequence hit
coverage= 100%, length is 303aa with 113 gaps, 1 stops,
frame= Minus2"
CDS complement(370078..369204)
/colour="255 0 0"
/evidence=predicted
/translation="FGIGIDVSKATLDVAVHGEQ-----FRQFSNDKRGFVRLIRWL
KTWP-----IKQVVLEASGGYERAALDVLHAA---GLPMVRINPARARRFAQGT-GRA
AKTDRLDATVLAQMAHLLPLTRYVP--PAPW---QORLAEFAQCRRQLVQMRVSEMQR
LRRLVDPDLIA-----
-----MKQRHIAQLSDDLKQLDKAIAEQLEGQPGW
KNIGA-----LKGVGPILISTLACELP-ELGSLGSK-AIASLVGLAPMNRESG-TWO
GXRRISG-GRAVVREALYMAALTAIRYEPRLRAFYAGLKAKGK---ASKVALVAVMRK
MLVILNAR"
/note="IS110 e-value= 4.1e-51 fragment hit coverage=
96.15%, length is 292aa with 108 gaps, 1 stops, frame=
Minus2"
CDS complement(27022..25944)
/colour="255 0 0"
/evidence=predicted
/translation="VQARCGXAGQPAGRQLCPGGPGAGDPGC-IADPLEAGGPEPGpg
g1RWRHDAPGRGTGAAQARAGPGE-EGAGFFARSGDVLCQGIILR-----YQVI
ERCRDEFPVRLMCRCLRVSASGYYDWSKRLPSARERDNQRLLGRIELHEDSRGTLGA
GRMHEDLA---EEGETASLNRVARLMATDGLQGWPRPK----RRGQRGKPAlppgv
RNLLERDFTALEPETRWVTDITELKTR-QGKLYLCIVLSDLFDQRVVGWSMHHRQDRQM
VIRAVQMAVWQRQGSHPLILHS----DRGSQFRSGDYQRYLAANGLVCSMSAVGHCG
DNAACEGFFGLLKRERVY--RMTYPTLDAARADVFEYIERFHNPROM-----
RRRVARQ"
/note="IS3_IS150_ORF2      e-value= 1.6e-25 complete sequence
hit coverage= 100%, length is 360aa with 39 gaps, 1
stops, frame= Minus2"

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CDS complement(26815..25917)
/colour="255 0 0"
/evidence=predicted
/translation="AGFFARSGDVLCQgIILRYQVIERCRDEFPVRLMCRCLRVsASG
YYDWSKRLPSARERDnQRLLGRIRELHEDSRGTLGAGRMHEDLAEEGETASLNRVARL
MATDGLQGWPRPKR--RGQRGKPALTGGVrNLLERDFTALEPETRWVTDITELKT--
RQGKLYLCIVLDLFQDQVVGWSMHHRQDRQMVIRAVQMAWQ-RQGSHPLILHSDRGS
QFRSGDYQRYLAANGLVCMSAVGHCGDNAACEGFFGLLKRERVYRMTYPTLD--AAR
ADVFEYIERFHNP---RMRRRVARQDQKFSALLQ"
/note="IS3_IS150_ORF1      e-value= 1.5e-33 complete sequence
hit coverage= 100%, length is 300aa with 10 gaps, 0
stops, frame= Minus2"
CDS complement(26779..25851)
/colour="255 0 0"
/evidence=predicted
/translation="QGIIILRYQVIERCRD--EFPVRLMCRCLRVs---ASGYYDWSKR
LPSARERDNQRLLGRIRELHEDSRG----TLGAGRMHEDLAEEGETASLNRVARLMA
TDGLQGW--PRPKRRGQRGKPALTGGVrNLLERDFTALEPETRWVTDITELKTROGK
LYLCIVLDLFQDQVVGWSMHHRQDRQMVIRAVQMAWQ-RQGSHPLILHSDRGS
QFRSGDYQRYLAANGLVCMSAVGHCGDNAACEGFFGLLKRERVYRMTYPTLDAARAD
VFYEYIERFHNPmRRRVARQDqkfsallQPSVISGXNPNGAGXGEARLS"
/note="IS3_IS51_ORF2      e-value= 9.6e-57 complete sequence
hit coverage= 100%, length is 310aa with 17 gaps, 2
stops, frame= Minus2"
CDS complement(26761..25968)
/colour="255 0 0"
/evidence=predicted
/translation="YQVIERCRDEFPVRLMCRCLRVsASGYYDWS----KRLPSARE
RDNQRLLGRIRELHEDSRGTLGAGRMHEDLAEEGETASLNRVARLMATDGLQGWPRPK
RRGQRgKPALTGGVrNLLERDFTALEPETRWVTDITELKTROGKLYLCIVLDLFQDQ
VVGWSMHHRQDRQMV-IRAVQMAWQ-RQGSH---PLILHSDRGSQFRSGDYQRYLAA
NGLVCMSAVGHCGDNAACEGFFGLLKRERVYR---MTYPTLDAARADVFEYIERFH
N-PR"
/note="IS3_IS51_ORF1      e-value= 1.7e-73 fragment hit
coverage= 90.88%, length is 265aa with 15 gaps, 0 stops,
frame= Minus2"
CDS complement(26761..25902)
/colour="255 0 0"
/evidence=predicted
/translation="YQVIERCRDEFPVRLMCRCLRVsASGYYDWS----KRLPSARE
RDNQRLLGRIRELHEDSRGTLGAGRMHEDLAEEGETASLNRVARLMATDGLQGWPRPK
RRGQRgKPALTGGVrNLLERDFTALEPETRWVTDITELKTROGKLYLCIVLDLFQDQ
VVGWSMHHRQDRQMV-IRAVQMAWQ-RQGSH---PLILHSDRGSQFRSGDYQRYLAA
NGLVCMSAVGHCGDNAACEGFFGLLKRERVYR---MTYPTLDAARADVFEYIERFH
NPRMRRRVARQDQK-----FSALLQPSVIS"
/note="IS3_IS51_ORF1      e-value= 7.6e-67 complete sequence
hit coverage= 100%, length is 287aa with 21 gaps, 0
stops, frame= Minus2"
CDS complement(26758..25986)
/colour="255 0 0"
/evidence=predicted
/translation="QVIERCRDEFPVRLMCRCLRVsASGYYDWSKRLPSARERDNQRLL
GRIRELHEDSRGTLGAGRMHEDLA---EEGETASLNRVARLMATDGLQGWPRPK---
--RRGQRGKPALTGGVrNLLERDFTALEPETRWVTDITELKT-RQGKLYLCIVLDLF
DQDQVVGWSMHHRQDRQMVIRAVQMAWQ-RQGSHPLILHs----DRGSQFRSGDYQRY
LAANGLVCMSAVGHCGDNAACEGFFGLLKRERVY--RMTYPTLDAARADVFEYIE"
/note="IS3_IS150_ORF2      e-value= 1.7e-58 fragment hit
coverage= 68.89%, length is 258aa with 16 gaps, 0 stops,
frame= Minus2"
CDS complement(26758..25965)

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/colour="255 0 0"
/evidence=predicted
/translation="QVIERCRDEFPVRLMCRCLRVSASGYYDWSKR--LPSARERDNO
RLLGRIELHEDSRGTLGAGRMHEDLA-EEGETASLNRVARLMATDGLQGWPRPKRRG
QRGKpALTpPGVRNLLERDFTALEPETRWVTDTIELKTRQGKLYLCIVLDLFQDRVVG
WSMHHRQDRQMIRAVQMAWQRQGSHPLILHSDRGSQFRSGDYQRYLAANGLVCSMS
AVGHCGDNAACEGFFGLLK--RERVYRMTYPTLDAARADVFEYIERFHNP-RMRRVA"
/note="IS3_IS3_ORF1      e-value= 4e-75 fragment hit

coverage=
94.06%, length is 265aa with 6 gaps, 0 stops, frame=
Minus2"

CDS
complement(26758..25926)
/colour="255 0 0"
/evidence=predicted
/translation="QVIERCRDEFPVRLMCRCLRVSASGYYDWSKR--LPSARERDNO
RLLGRIELHEDSRGTLGAGRMHEDLA-EEGETASLNRVARLMATDGLQGWPRPKRRG
QRGKpALTpPGVRNLLERDFTALEPETRWVTDTIELKTRQGKLYLCIVLDLFQDRVVG
WSMHHRQDRQMIRAVQMAWQRQGSHPLILHSDRGSQFRSGDYQRYLAANGLVCSMS
AVGHCGDNAACEGFFGLLK--RERVYRMTYPTLDAARADVFEYIERFHNP-RMRRVA
----RQDQKFSA"
/note="IS3_IS3_ORF1      e-value= 2.4e-72 complete sequence
hit coverage= 100%, length is 278aa with 10 gaps, 0
stops, frame= Minus2"

CDS
complement(26746..25950)
/colour="255 0 0"
/evidence=predicted
/translation="RCRDEFPVRLMCRCLRVSASGYYDWSKRLPSARERDNQRLLGRI
RELHEDSRGTLGAGRMHEDLAEEGETASLNRVARLMATDGLQGWPRPKRRGQRGK--P
ALTPPgvrNLLERDFTALE--PETRWVTDTIELKTRQGKLYLCIVLDLFQDRVVGWSM
HHRQDRQMIRAVQMAWQO---ROGSHPLILHSDRGSQFRSGDYQRYLAANGLVCSM
SAVGHCGDNAACEGFFGLLKRE RYRMTYPTLDAARADVFEYIERFHNP-RMRRVA"
/note="IS3_IS3_ORF2      e-value= 2.2e-69 fragment hit
coverage= 93.75%, length is 266aa with 8 gaps, 0 stops,
frame= Minus2"

CDS
complement(26746..25929)
/colour="255 0 0"
/evidence=predicted
/translation="RCRDEFPVRLMCRCLRVSASGYYDWSKRLPSARERDNQRLLGRI
RELHEDSRGTLGAGRMHEDLAEEGETASLNRVARLMATDGLQGWPRPKRRGQRGK--P
ALTPPgvrNLLERDFTALE--PETRWVTDTIELKTRQGKLYLCIVLDLFQDRVVGWSM
HHRQDRQMIRAVQMAWQO---ROGSHPLILHSDRGSQFRSGDYQRYLAANGLVCSM
SAVGHCGDNAACEGFFGLLKRE RYRMTYPTLDAARADVFEYIERFHNP-RMRRVA--
-----RQDQKFS"
/note="IS3_IS3_ORF2      e-value= 2.6e-66 complete sequence
hit coverage= 100%, length is 273aa with 19 gaps, 0
stops, frame= Minus2"

CDS
complement(26725..25971)
/colour="255 0 0"
/evidence=predicted
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EDSRG----T L GAGRMHEDLAEEGETASLNRVARLMATDGLQGW--PRPKRRGQRGK
PALTPPgvrNLLERDFTALEPETRWVTDTIELKTRQGKLYLCIVLDLFQDRVVGWSM
HRQDRQMIRAVQMAWQRQGS----HPLILHSDRGSQFRSGDYQRYLAANGLVCSM
SAVGHCGDNAACEGFFGLLKRE RYRMTYPTLDAARADVFEYIERFHNP"
/note="IS3_IS51_ORF2      e-value= 1.5e-73 fragment hit
coverage= 83.28%, length is 252aa with 15 gaps, 0 stops,
frame= Minus2"

CDS
complement(26695..25974)
/colour="255 0 0"
/evidence=predicted

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<translation="SASGYYDWSKRLPSARERDnQRLLGRIRELHEDSRGTLGAGRMH
EDLAEEGETASLNRVARLMATDGLQGWPRPKR--RGQRGKPALTPPGVrNLLERDFTA
LEPETRWVTDITELKT--RQGKLYLCIVLDLFQRVVGWSMHHRQDRQMVIRAVQMAV
WQ-RQGSHPLILHSDRGSQFRSGDYQRYLAANGLVCSMSAVGHCGDNAACEGFFGLLK
RERVYRMTYPTLD--AARADVFEYIERFHN"
/note="IS3_IS150_ORF1      e-value= 2.4e-37 fragment hit
coverage= 80.39%, length is 241aa with 7 gaps, 0 stops,
frame= Minus2"
CDS complement(4665888..4665734)
/colour="255 0 0"
/evidence=predicted
/translation="QLTFGDTQGLGKRQTRREILLYEVDXVVWKALLARIEPHYP-
RSGRVGQRA"
/note="IS5_IS5      e-value= 3.8e-15 fragment hit coverage=
12.56%, length is 52aa with 1 gaps, 1 stops, frame=
Minus3"
CDS complement(3123708..3122633)
/colour="255 0 0"
/evidence=predicted
/translation="-SSSAVRLSRPAGRQLCPGGPGAGDPGC-IADPLEAGGPEPGpg
g1RWRHDAPGRGTAAQARAGPGE-EGAGFFARSGDVLCQGIILR-----YQVI
ERCRDEFPVRLMCRLRVASGYYDWSKRLPSARERDNQRLLGRIRELHEDSRGTLGA
GRMHEDLA---EEGETASLNRVARLMATDGLQGWPRPK-----RRGQRGKPAlppgv
RNLLERDFTALEPETRWVTDITELKTR-QGKLYLCIVLDLFQRVVGWSMHHRQDRQM
VIRAVQMAVWQRQGSHPLILHS----DRGSQFRSGDYQRYLAANGLVCSMSAVGHCG
DNAACEGFFGLLKRERVY--RMTYPTLDAARADVFEYIERFHNP-----RRVARQ"
/note="IS3_IS150_ORF2      e-value= 8.1e-26 complete sequence
hit coverage= 100%, length is 359aa with 40 gaps, 0
stops, frame= Minus3"
CDS complement(3123504..3122606)
/colour="255 0 0"
/evidence=predicted
/translation="AGFFARSGDVLCQgIILRYQVIERCRDEFPVRLMCRLRvSASG
YYDWSKRLPSARERDnQRLLGRIRELHEDSRGTLGAGRMHEDLAEEGETASLNRVARL
MATDGLQGWPRPKR--RGQRGKPALTPPGVrNLLERDFTALEPETRWVTDITELKT--
RQGKLYLCIVLDLFQRVVGWSMHHRQDRQMVIRAVQMAVWQ-RQGSHPLILHSDRGS
QFRSGDYQRYLAANGLVCSMSAVGHCGDNAACEGFFGLLKRERVYRMTYPTLD--AAR
ADVFEYIERFHN--RMRRAVARQDQKFSALLQ"
/note="IS3_IS150_ORF1      e-value= 1.5e-33 complete sequence
hit coverage= 100%, length is 300aa with 10 gaps, 0
stops, frame= Minus3"
CDS complement(3123468..3122558)
/colour="255 0 0"
/evidence=predicted
/translation="QGIIILRYQVIERCRD--EFPVRLMCRLRVS---ASGYYDWSKR
LPSARERDNQRLLGRIRELHEDSRG----TLGAGRMHEDLAEEGETASLNRVARLMA
TDGLQGW--PRPKRRGQRGKPALTPPGVrNLLERDFTALEPETRWVTDITELKTRQGK
LYLCIVLDLFQRVVGWSMHHRQDRQMVIRAVQMAVWQRQGS----HPLILHSDRGS
QFRSGDYQRYLAANGLVCSMSAVGHCGDNAACEGFFGLLKRERVYRMTYPTLDARAD
VFYEYIERFHNPmRRVARQD--QKFSALLqpsVISGXNPRQSRTTR"
/note="IS3_IS51_ORF2      e-value= 2.2e-57 complete sequence
hit coverage= 100%, length is 304aa with 20 gaps, 1
stops, frame= Minus3"
CDS complement(3123450..3122657)
/colour="255 0 0"
/evidence=predicted
/translation="YQVIERCRDEFPVRLMCRLRVSASGYYDWS----KRLPSARE
RDNQRLLGRIRELHEDSRGTLGAGRMHEDLAEEGETASLNRVARLMATDGLQGWPRPK
RRGQRgKPALTPPGVrNLLERDFTALEPETRWVTDITELKTRQGKLYLCIVLDLFQ
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VVGWSMHRQDRQMV-IRAVQMAWQRQGSH----PLILHSDRGSQFRSGDYQRYLAA
 NGLVCSMSAVGHCGDNAACEGFFGLLKRERVYR----MTYPTLDAARADVFEYIERFH
 N-PR"
 /note="IS3_IS51_ORF1 e-value= 1.7e-73 fragment hit
 coverage= 90.88%, length is 265aa with 15 gaps, 0 stops,
 frame= Minus3"
 CDS complement(3123450..3122591)
 /colour="255 0 0"
 /evidence=predicted
 /translation="YQVIERCRDEFPVRLMCRCLRVSASGYDWS----KRLPSARE
 RDNQRLLGRIRELHEDSRGTLGAGRMHEDLAEEGETASLNRVARLMATDGLQGWPRPK
 RRGQRgKPALTppGVNLLERDFTALEPETRWVTDITELKTRQGKLYLCIVLDLFQDR
 VVGWSMHRQDRQMV-IRAVQMAWQRQGSH----PLILHSDRGSQFRSGDYQRYLAA
 NGLVCSMSAVGHCGDNAACEGFFGLLKRERVYR----MTYPTLDAARADVFEYIERFH
 NPRMRRRVARQDQK-----FSALLQPSVIS"
 /note="IS3_IS51_ORF1 e-value= 7.6e-67 complete sequence
 hit coverage= 100%, length is 287aa with 21 gaps, 0
 stops, frame= Minus3"
 CDS complement(3123447..3122675)
 /colour="255 0 0"
 /evidence=predicted
 /translation="QVIERCRDEFPVRLMCRCLRVSASGYDWSKRLPSARERDNQRL
 LGRIRELHEDSRGTLGAGRMHEDLA---EEGETASLNRVARLMATDGLOGWPRPK---
 --RRGQRGKPALTppgvRNLLERDFTALEPETRWVTDITELKTR-QGKLYLCIVLDLF
 DQRVVGWSMHRQDRQMVIRAVQMAWQRQGSHPLILHS-----DRGSQFRSGDYQRY
 LAANGLVCSMSAVGHCGDNAACEGFFGLLKRERVY--RMTYPTLDAARADVFEYIE"
 /note="IS3_IS150_ORF2 e-value= 1.7e-58 fragment hit
 coverage= 68.89%, length is 258aa with 16 gaps, 0 stops,
 frame= Minus3"
 CDS complement(3123447..3122654)
 /colour="255 0 0"
 /evidence=predicted
 /translation="QVIERCRDEFPVRLMCRCLRVSASGYDWSKR--LPSARERDNO
 RLLGRIRELHEDSRGTLGAGRMHEDLA-EEGETASLNRVARLMATDGLQGWPRPKRRG
 QRGKpALTpPGVRNLLERDFTALEPETRWVTDITELKTRQGKLYLCIVLDLFQDRVVG
 WSMHHRQDRQMVIRAVQMAWQRQGSHPLILHSDRGSQFRSGDYQRYLAANGLVCSMS
 AVGHCGDNAACEGFFGLLK--RERYRMTYPTLDAARADVFEYIERFHNP-RM"
 /note="IS3_IS3_ORF1 e-value= 4e-75 fragment hit
 coverage= 94.06%, length is 265aa with 6 gaps, 0 stops, frame= Minus3"
 CDS complement(3123447..3122615)
 /colour="255 0 0"
 /evidence=predicted
 /translation="QVIERCRDEFPVRLMCRCLRVSASGYDWSKR--LPSARERDNO
 RLLGRIRELHEDSRGTLGAGRMHEDLA-EEGETASLNRVARLMATDGLQGWPRPKRRG
 QRGKpALTpPGVRNLLERDFTALEPETRWVTDITELKTRQGKLYLCIVLDLFQDRVVG
 WSMHHRQDRQMVIRAVQMAWQRQGSHPLILHSDRGSQFRSGDYQRYLAANGLVCSMS
 AVGHCGDNAACEGFFGLLK--RERYRMTYPTLDAARADVFEYIERFHNP-RMRRRV
 ----RQDQKFSA"
 /note="IS3_IS3_ORF1 e-value= 2.4e-72 complete sequence
 hit coverage= 100%, length is 278aa with 10 gaps, 0
 stops, frame= Minus3"
 CDS complement(3123435..3122639)
 /colour="255 0 0"
 /evidence=predicted
 /translation="RCRDEFPVRLMCRCLRVSASGYDWSKRLPSARERDNQRLGRI
 RELHEDSRGTLGAGRMHEDLAEEGETASLNRVARLMATDGLQGWPRPKRRGQRGK--P
 ALTPGvrNLLERDFTALE--PETRWVTDITELKTRQGKLYLCIVLDLFQRVVGWSM
 HHRQDRQMVIRAVQMAWQ----RQGSHPLILHSDRGSQFRSGDYQRYLAANGLVCSM

SAVGHCGDNAACEGFFGLLKRERVYRMTYPTLDAARADVFEYIERFHNP RMRRVA"
 /note="IS3_IS3_ORF2 e-value= 2.2e-69 fragment hit
 coverage= 93.75%, length is 266aa with 8 gaps, 0 stops,
 frame= Minus3"
 CDS complement(3123435..3122618)
 /colour="255 0 0"
 /evidence=predicted
 /translation="RCRDEFPVRLMCRLRVSASGYDWSKRLPSARERDNQRLGRI
 RELHEDSRGTLGAGRMHEDLAEEGETASLNVARLMATDGLQGWPRPKRGQRGK--P
 ALTPPGvrNLLERDFTALE--PETRWVTDITELKTRQGKLYLCIVLDLFQRVVGWSM
 HHRQDRQMVRQMAWQ---RQGSHPLILHSDRGSQFRSGDYQRYLAANGLVCSM
 SAVGHCGDNAACEGFFGLLKRERVYRMTYPTLDAARADVFEYIERFHNP RMRRVA--
 -----RQDQKFS"
 /note="IS3_IS3_ORF2 e-value= 2.6e-66 complete sequence
 hit coverage= 100%, length is 273aa with 19 gaps, 0
 stops, frame= Minus3"
 CDS complement(3123414..3122660)
 /colour="255 0 0"
 /evidence=predicted
 /translation="VRLMCRLRVS---ASGYDWSKRLPSARERDNQRLGRIRELH
 EDSRG----TLLGAGRMHEDLAEEGETASLNVARLMATDGLQGW--PRPKRRGQRGK
 PALTPPGvrNLLERDFTALEPETRWVTDITELKTRQGKLYLCIVLDLFQRVVGWSM
 HRODRQMVRQMAWQROGS----HPLILHSDRGSQFRSGDYQRYLAANGLVCSM
 SAVGHCGDNAACEGFFGLLKRERVYRMTYPTLDAARADVFEYIERFHNP"
 /note="IS3_IS51_ORF2 e-value= 1.5e-73 fragment hit
 coverage= 83.28%, length is 252aa with 15 gaps, 0 stops,
 frame= Minus3"
 CDS complement(3123384..3122663)
 /colour="255 0 0"
 /evidence=predicted
 /translation="SASGYDWSKRLPSARERDNQRLGRIRELHEDSRGTLGAGRMH
 EDLAEEGETASLNVARLMATDGLQGWPRPKR--RQGKGKPALTPGVrNLLERDFTA
 LEPETRWVTDITELKT--RQGKLYLCIVLDLFQRVVGWSMHHRQDRQMVRQMAW
 WQ-RQGSHPLILHSDRGSQFRSGDYQRYLAANGLVCSMSAVGHCGDNAACEGFFGLLK
 RERVYRMTYPTLD--AARADVFEYIERFHNP"
 /note="IS3_IS150_ORF1 e-value= 2.4e-37 fragment hit
 coverage= 80.39%, length is 241aa with 7 gaps, 0 stops,
 frame= Minus3"
 CDS complement(2403027..2402087)
 /colour="255 0 0"
 /evidence=predicted
 /translation="NARLTVHSRALLIRRILHEGLRPEAAQACGVSVRTAYKWLARF
 RQFGAPGLENRSSRPHQTPHATPAPVIEQIKEHR-RKQTYLTISKALG-----
 VGHSTISRLMRAHGLNRLCRLEPPK-----EVIR-----YEYDQPGGLLHLDIKK
 -----LGNFQRPGRHTDAkRRGNAAGGGWGYVHVAIDDHSRVAFSSVHPNEQAETACQ
 ALLGALQYYASLGIT-FKRILTDNGACYRST---AFAKLLKSLGIKHIRTKPYTPRT
 NGKAERFIQTSLREWAYARE---YASSDQRNSVLTQWLHHYNWHRPHM--GIGGQPPI
 SRVLLNNVVGLHSXSTNK"
 /note="IS481 e-value= 4.3e-95 complete sequence hit
 coverage= 100%, length is 314aa with 38 gaps, 1 stops,
 frame= Minus3"
 CDS complement(2403027..2402087)
 /colour="255 0 0"
 /evidence=predicted
 /translation="NARLTVHSRALLIRRILHEGLRPEAAQACGVSVRTAYKWLARF
 RQFGAPGLENRSSRPHQTPHATPAPVIEQIKEHR-RKQTYLTISKALG-----
 VGHSTISRLMRAHGLNRLCRLEPPK-----EVIR-----YEYDQPGGLLHLDIKK
 -----LGNFQRPGRHTDAkRRGNAAGGGWGYVHVAIDDHSRVAFSSVHPNEQAETACQ
 ALLGALQYYASLGIT-FKRILTDNGACYRST---AFAKLLKSLGIKHIRTKPYTPRT
 NGKAERFIQTSLREWAYARE---YASSDQRNSVLTQWLHHYNWHRPHM--GIGGQPPI

SRVILLNNVVGLHSXSTNK"
/note="IS481 e-value= 1.1e-95 complete sequence hit
coverage= 100%, length is 314aa with 38 gaps, 1 stops,
frame= Minus3"
CDS complement(2402406..2402141)
/colour="255 0 0"
/evidence=predicted
/translation="RILTDNGACYRSTAFAKLLKSLGIKHIRTKPYTPRTNGKAERFI
QTSLREWAY--AREYASSDQRNSVLTQWLHHYNWHRPHMGIGGQPPI"
/note="IS3_IS150_ORF2 e-value= 1.8e-10 fragment hit
coverage= 23.39%, length is 89aa with 2 gaps, 0 stops,
frame= Minus3"
CDS complement(2402211..2402144)
/colour="255 0 0"
/evidence=predicted
/translation="VLTQWLHHYNWHRPHMGIGGQPPI"
/note="IS3_IS407_ORF2 e-value= 4.1e-07 fragment hit
coverage= 6.69%, length is 23aa with 0 gaps, 0 stops,
frame= Minus3"
CDS complement(1723680..1722572)
/colour="255 0 0"
/evidence=predicted
/translation="VQDRGGPT-----DRXVRPSGSGCCATgRVDPXSLRLEAATR
QRRCWPACRAGPERGS-APPQGXATQGHXRARHPKKSRRVL---CKGVRAKYAFMKQH
ADEFGLAAMCRMLGVHRSGYYAWLKEPASARDKDDQRLGLIKHSWLESGSVYGHRKV
TTDLR---ELGETCSRHRVARLMKSEGLRAMVGYGRPRPLSGPGVGSVAKNVLARGFK
VSEPNRAWVTDTITYIRTY-DGFLYLAVALDLFSRQVVGWATRPTQHTDLVLQALLAAV
WRRKPSPGLLLHS----DQGTQFTSEDWQSFRLREHDIVCSMSRRGNCHDNAAMESFF
QLLKRERIK--RRIYSNHDEARADVFQYIEmFYNPKRRHSSNDGLSPVEFEKQYALN"
/note="IS3_IS150_ORF2 e-value= 1.2e-45 complete sequence
hit coverage= 100%, length is 370aa with 21 gaps, 4
stops, frame= Minus3"
CDS complement(1723617..1722548)
/colour="255 0 0"
/evidence=predicted
/translation="--ATGRVDPXSLRLEAATRQ---RRCWPACRAG-PERGSAPPQG
XATQGHXRARhPKSRRVLCKGVRAKYAFMKQHAdEFGLAAMCRMLGVHRSGYYAWLK
E-PASARDKddQRLGLIKHSWLESgsVYGHRKVTTDLRELGETCSRHRVARLMKSEG
LRAmvgygRRPR-PLSGPGVGSVAKnvlARgfkVSEPNRAWVTDTITYIRTYDG--FLYL
AVV1DLFSRQVVGWATRPTQHTDLVLQALLAAVWRRkPSPgLLLHSDQGTQFTSEDWQ
SFLREHDIVCSMSRRGNCHDNAAMESFFQLLKRERIKRRIYSNHDEARADVFQYIEmf
YNPKRRHSSNDGLSPVEFEKQYALNGXRLSRKP"
/note="IS3_IS407_ORF2 e-value= 2.1e-06 complete sequence
hit coverage= 100%, length is 357aa with 10 gaps, 4
stops, frame= Minus3"
CDS complement(1723479..1722575)
/colour="255 0 0"
/evidence=predicted
/translation="ARHPKKSRRVLCKgVRAKYAFMKQHAdEFGLAAMCRMLGVHRSG
YYAWLKePASARDKddQRLGLIKHSWLESgsVYGHRKVTTDLRELGETCSRHRVARL
MKSEGLRAMVGYGR--RPRPLSGPGVGSVAKNVLARGFKVSEPNRAWVTDTITYIRT--Y
DGFLYLAVALDLFSRQVVGWATRPTQHTDLVLQALLAAVWR-RKPSGPPLLHSDQGTQ
FTSEDWQSFRLREHDIVCSMSRRGNCHDNAAMESFFQLLKRERIKRRIYSNHDEARADVFQYIEmf
YNPKRRHSSNDGLSPVEFEKQYALNGXRLSRKP"
/note="IS3_IS150_ORF1 e-value= 1.4e-57 complete sequence
hit coverage= 100%, length is 302aa with 7 gaps, 0 stops,
frame= Minus3"
CDS complement(1723455..1722563)
/colour="255 0 0"
/evidence=predicted

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/colour="255 0 0"
/evidence=predicted
/translation="AFMKQHADFGLAAMCRMLGVHRSGYYAWLKE--PASARDKDDQ
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PRPLSgPVGSVAKNVLARGFKVSEPNRAWVTIDITYIRTYDGFLYLAVVLDLFSRQVVG
WATRPTQHTDVLQALLAAVWRKRKPSPGLLLHSDQGTQFTSEDWQSFREHDIVCSMS
RRGNCHDNAAMESFFQOLLK--RERIKRRIYSNHDEARADVFOYIEMFYNPKRRHSSND
GLSPVEFEKQYA"
/note="IS3_IS3_ORF1      e-value= 1.9e-94 complete sequence
hit coverage= 100%, length is 282aa with 6 gaps, 0 stops,
frame= Minus3"
CDS
complement(1723422..1722578)
/colour="255 0 0"
/evidence=predicted
/translation="AFMKQHADFGLAAMCRMLGVHRSGYYAWLKE--PASARDKDDQ
RLLGLIKHSWLESGSVYGHRKVTTDLR-ELGETCSRHRVARLMKSEGLRAMVGYG-RR
PRPLSgPVGSVAKNVLARGFKVSEPNRAWVTIDITYIRTYDGFLYLAVVLDLFSRQVVG
WATRPTQHTDVLQALLAAVWRKRKPSPGLLLHSDQGTQFTSEDWQSFREHDIVCSMS
RRGNCHDNAAMESFFQOLLK--RERIKRRIYSNHDEARADVFOYIEMFYNPKRRHSSND
GLSPVEFEKQYA"
/note="IS3_IS3_ORF1      e-value= 4.9e-95 complete sequence
hit coverage= 100%, length is 282aa with 6 gaps, 0 stops,
frame= Minus3"
CDS
complement(1723410..1722566)
/colour="255 0 0"
/evidence=predicted
/translation="QHADEFGLAAMCRMLGVHRSGYYAWLKEPASARDKDDQRLLGLI
KHSWLESGSVYGHRKVTTDLRELGETCSRHRVARLMKSEGLRAMvGYGRRPRPLSGPV
GSVAK-NVLARGFKVSE--PNRAWVTIDITYIRTYDGFLYLAVVLDLFSRQVVGWATRP
TQHTDVLQALLAAVWR---RKPSPGLLLHSDQGTQFTSEDWQSFREHDIVCSMSR
RGNCHDNAAMESFFQOLLKRERIKRRIYSNHDEARADVFOYIEMFYNPKRRHSSNDGLS
PVEFEKQYALNGX"
/note="IS3_IS3_ORF2      e-value= 7.1e-102 complete
sequence
hit coverage= 100%, length is 282aa with 7 gaps, 1 stops,
frame= Minus3"
CDS
complement(1723410..1722566)
/colour="255 0 0"
/evidence=predicted
/translation="QHADEFGLAAMCRMLGVHRSGYYAWLKEPASARDKDDQRLLGLI
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TQHTDVLQALLAAVWR---RKPSPGLLLHSDQGTQFTSEDWQSFREHDIVCSMSR
RGNCHDNAAMESFFQOLLKRERIKRRIYSNHDEARADVFOYIEMFYNPKRRHSSNDGLS
PVEFEKQYALNGX"
/note="IS3_IS3_ORF2      e-value= 2e-102 complete sequence
hit
coverage= 100%, length is 282aa with 7 gaps, 1 stops,
frame= Minus3"
CDS
complement(1723398..1722572)
/colour="255 0 0"
/evidence=predicted
/translation="EFGLAAMCRMLGVHRSGYYAWLKEPASARDKDDQRLLGLIKHSW
LESGSVYGHRKVTTDLR---ELGETCSRHRVARLMKSEGLRAMVGYGRRPRPLSGPVG
SVAKNVLARGFKVSEPNRAWVTIDITYIRTY-DGFLYLAVVLDLFSRQVVGWATRPTQH
TDLVQALLAAVWRKRKPSPGLLLHS----DQGTQFTSEDWQSFREHDIVCSMSRRG
NCHDNAAMESFFQOLLKRERIK--RRIYSNHDEARADVFOYIEMFYNPKRRHSSNDGLS
PVEFEKQYALN"
/note="IS3_IS150_ORF2      e-value= 1.9e-74 fragment hit
coverage= 73.52%, length is 276aa with 11 gaps, 0 stops,

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frame= Minus3"
CDS complement(1723395..1722578)
/colour="255 0 0"
/evidence=predicted
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SWLESGS----VYGHRKVTSDLRELGETCSRHRVARLMKSEGLRAMVGYGRRPRPLS
GPVGGSVAKNVLARGFKVSEPNRAWVTIDITYIRTYDGFLYLAVVLDLFSRQVVGWATRP
TOHTDVLQALLAAVWRKPS----PGLLLHSDQGTQFTSEDWQSLREHDIVCSMS
RRGNCHDNAAMESFFQOLLKRERIKRRIYSNHDEARADVFOYIEMFYNPKRRHSSNDGL
SPVEFEKQYA"
/note="IS3_IS51_ORF2      e-value= 7.1e-152 fragment hit
coverage= 90.22%, length is 273aa with 13 gaps, 0 stops,
frame= Minus3"
CDS complement(526827..525914)
/colour="255 0 0"
/evidence=predicted
/translation="NARLTVHSRALLIRRILHEGLRPEEAAQACGSVRTAYKWLARF
RQFGAPGLENRSSRPHQTPHATPAPVIEQIKEHR-RKQTYLTISKALG-----
VGHSTISRLMRAHGLNRLCRLEPPK-----EVIR-----YEYDQPGGLLHLDIKK
-----LGNFQRPGRHTDAkRRGNAAGGGWGYVHVAIDDHSRVAFSSVHPNEQAETACQ
ALLGALQYYASLGIT-FKRILTDNGACYRST---AFAKLLKSLGIKHIRTKPYTPRT
NGKAERFIQTSLREWAYARE---YASSDQRNSVLTQWLHHYNWHRPHM--GIGGQPPI
SRVLLNNVV"
/note="IS481 e-value= 6.1e-93 fragment hit coverage=
97.44%, length is 305aa with 38 gaps, 0 stops, frame=
Minus3"
CDS complement(526827..525887)
/colour="255 0 0"
/evidence=predicted
/translation="NARLTVHSRALLIRRILHEGLRPEEAAQACGSVRTAYKWLARF
RQFGAPGLENRSSRPHQTPHATPAPVIEQIKEHR-RKQTYLTISKALG-----
VGHSTISRLMRAHGLNRLCRLEPPK-----EVIR-----YEYDQPGGLLHLDIKK
-----LGNFQRPGRHTDAkRRGNAAGGGWGYVHVAIDDHSRVAFSSVHPNEQAETACQ
ALLGALQYYASLGIT-FKRILTDNGACYRST---AFAKLLKSLGIKHIRTKPYTPRT
NGKAERFIQTSLREWAYARE---YASSDQRNSVLTQWLHHYNWHRPHM--GIGGQPPI
SRVLLNNVVGLHNXQSTL"
/note="IS481 e-value= 1.2e-93 complete sequence hit
coverage= 100%, length is 314aa with 38 gaps, 1 stops,
frame= Minus3"
CDS complement(526206..525941)
/colour="255 0 0"
/evidence=predicted
/translation="RILTDNGACYRSTAFAKLLKSLGIKHIRTKPYTPRTNGKAERFI
QTSLREWAY--AREYASSDQRNSVLTQWLHHYNWHRPHMGIGGQPPI"
/note="IS3_IS150_ORF2      e-value= 1.8e-10 fragment hit
coverage= 23.39%, length is 89aa with 2 gaps, 0 stops,
frame= Minus3"
CDS complement(526011..525944)
/colour="255 0 0"
/evidence=predicted
/translation="VLTQWLHHYNWHRPHMGIGGQPP"
/note="IS3_IS407_ORF2      e-value= 4.1e-07 fragment hit
coverage= 6.69%, length is 23aa with 0 gaps, 0 stops,
frame= Minus3"

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