**Enolase** Α

Lung cystic fibrosisC Catheter Urine3 Rectal swab3 Vascular ulcer Perineum Lung\_cystic\_fibrosisB Pusl Rectal swab1 Blood3 Ascites Cerebrospinal fluid3 Lung1 Lung2 Lung3 Mouth Oropharyngeal swab Pus 2 Sputum2 Sputum3 Thracheal asnirate Throat (pharynx) Heine? 0457 Blood? Cerebrospinal\_fluid2 Decubitus\_ulcer Lung\_cystic\_fibrosisA Rectal swab2 FOS1 Gut1 Sputuml Intestine Bloodl Liver Urinel Cerebrospinal fluid1 Dentine caries Oropharynx Lung\_cystic\_fibrosisC Catheter Urine3 Rectal swab3 Vascular\_ulcer Perineum Lung\_cystic\_fibrosisB Pus1 Rectal swabl Blood3 Ascites Cerebrospinal fluid3 Eye Lungi Lung2 Lune3 Mouth Oropharyngeal\_swab Pus2 Sputum2 Sputum3 Thracheal aspirate Throat (pharynx) Urine2 D457 Blood2 Cerebrospinal\_fluid2 Decubitus\_ulcer Lung cystic fibrosisA Rectal swab2 FOS1 Gut1 Sputum1 Gut2 Intestine

Blood1

Urinel

Cerebrospinal fluidl

Dentine caries

Oropharynx

Liver

MSTIRSIHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTKEAVELRDGDKTRYL 50 Blood1 MSTIRSIHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDRTRYL 60 Liver MSTIRSIHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDKTRYL 60 Urinel MSTIRSIHAREILDSRGNPTLEAEVILEDGSPGRAAVPSGASTGTREAVELRDGDRTHYL 50 Cerebrospinal fluid1 MSTIRSTHAREILDSRCNPTLEAEVILEDGSFGRAAVPSGASTGTWEAVELEDGDKTRYL 60 Dentine caries MSTIRSHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDKTRYL 50 Oropharynx MSTIRSIHAREILDSRGNFTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDRTRYL 60 MSTIRSTHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDRTRYL 50 Catheter MSTIRSTHAREILDSRGNPTLEAEVILEDGSPGRAAVPSGASTGTREAVELEDGDETRYL 60 Urine3 MSTIKSIHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTKEAVELRDGDKTRYL 50 Rectal swab3 MSTIRSTHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDRTRYL 50 Vascular ulcer MSTIRSTHARETLDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTKEAVELRDGDKTHYL 60 Perineum MSTIRSTHAREILDSRGNPTLEAEVILEDGSPGRAAVPSGASTGTREAVELRDGDKTRYL 60 Lung cystic fibrosisB MSTIRSIHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTKEAVELRDGDRTRYL 60 Pusl MSTIRSTHARETLDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTKEAVELRDGDKTRYL 60 Rectal swabl MSTIRSTHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDRTRYL 60 Blood3 MSTIRSTHARETLDSRGNPTLEAEVILEDGSPGRAAVPSGASTGTREAVELRDGDKTRYL 60 MSTIRSIHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTKEAVELRDGDKTRYL 50 Cerebrospinal fluid3 MSTIRSIHARETLDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDRTRYL 60 MSTIRSTHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDRTRYL 60 Lungi MSTIRSIHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDRTRYL 60 Lung2 MSTIRSIHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTKEAVELRDGDKTRYL 50 Lung3 MSTIRSIHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDRTRYL 60 MOUTH MSTIRSTHAREILDSRGNFTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDRTRYL 50 Oropharyngeal\_swab MSTIRSTHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTKEAVELRDGDRTRYL 60 Pus2 MSTIRSIHAREILDSRGNPTLEAEVILEDGSPGRAAVPSGASTGTKEAVELRDGDRTRYL 60 Sputum2 MSTIRSTHAREILDSRCNPTLEAEVILEDGSFGRAAVPSGASTGTKEAVELRDGDKTRYL 50 Sputum3 MSTIRSTHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDKTRYL 50 Thracheal aspirate MSTIRSIHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTKEAVELROGDKTHYL 50 Throat(pharynx) MSTIRSTHAREILDSRGNPTLEAEVILEDGSPGRAAVPSGASTGTKEAVELRDGDRTRYL 60 Urine2 MSTIRSTHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTKEAVELRDGDKTRYL 50 D457 MSTIRSIHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDRTRYL 50 Blood2 MSTIRSTHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTKEAVELRDGDKTRYL 60 Cerebrospinal fluid2 MSTIRSTHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDRTRYL 50 Decubitus ulcer MSTIRSIHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTMEAVELRDGDMTRYL 60 Lung cystic fibrosisA MSTIRSIHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDKTRYL 60 Rectal swabZ MSTIRSTHARETLDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDRTRYL 60 FOS1 MTTIRSTHAREILDSRGNPTLEADVVLEDGSFGRAAVPSGASTGTKEAVELRDGDRTRYL 50 Gut1 MTTIRSIHAREILDSRGNPTLEADVVLEDGSFGRAAVPSGASTGTKEAVELRDGDKTKYL 50 Sputuml MTTIRSIHAREILDSRGNPTLEAEVILEDGSPGRAAVPSGASTGTREAVELRDGDKTRYL 60 Gut2 MTTIRSIHAREILDSRGNPTLEAEVILEDGSFGRAAVPSGASTGTREAVELRDGDRTRYL 50 Intestine AAAASNKOALWOYLAAKTGVTPSLPVPMMNIINGGAHADNNVDFOEFMVLPVGFTSFSEA 180 AAAASSKOALWOYLAAKTGVTPSLPVPMMNIINGGAHADHNVDFOEFMVLPVGFTSFSEA 180 AAAASNKQALWQYLAAKTGVTPSLPVPMMNIINGGAHADNNVDFOEFMVLPVGFTSFSEA 180

AAAVSNKOALWOYLAAKTGVTPSLPVPMMN1INGGARADNNVDFOEFMVLPVGFTSFSEA 180 AAAASNKQALWQYLAAKTGVTPSLPVPMMNIINGGAHADNNVDFQEFMVLPVGFTSFSEA 180 AAAASSKOALWOYLAAKTGVTPSLPVPMMNIINGGAHADNNVDFOEFNVLPVGFTSFSEA 180 AAAASNKOALWOYLAAKTGVAPSLPVPMMNIINGGAHADNNVDFOEFMVLPVGPTSFSEA 180 AAAASSKQALWQYLAARTGYTLSEPVPMMNIINGGARADNNVDFQEFNVLFVGFTSFSEA 180 AAAASSKOALWOYLAARTGVTLSLPVPMMNIINGGAHADNNVDFQEFMVLPVGFTSFSEA 180 AAAASNXQALWQYLAARTGVTPALPVPMMNIINGGAHADNNVDFQEFMVLPVGFTSFSEA 180 AAAASNKOALWOYLAARTGVTPALPVPHMNIINGGAHADNNVDFQEFNVLPVGFTSFSEA 180 AAAASNKQALWQYLAARTGYTPSLPVPMMNIINGGAHADNNVDFQEFMVLPVGFTSFSEA 180 AAAASSKOALWOYLAARTGVTPSLPVPMMNIINGGAHADNNVDFOEFMVLPVGFTSFSEA 180 AAAASSKOALWOYLAARTGVTPSLPVPMMNTINGGAHADNNVDFOEFMVLPVGFTSFSEA 180 AAAASSKQALWQYLAARTGVTPSLPVPMMNIINGGAHADNNVDFQEFMVLPVGPTSFSEA 180 AAAASNKOALWOYLAARTGVTPSLPVPMMNIINGGAHADNNVDFOEFNVLPVGFTSFSEA 180 AAAASNKQALWQYLAARTGVTPSLPVPMMNIINGGAHADNNVDFQEFNVLPVGFTSFSEA 180 AARASNKOALWOYLAARTGUTPSI.PUPMMNTINGGAHADNNVDFORFMVI.PUGFTSESEA 180 AAAASNKQALWQYLAARTGVTPSLPVPMMN1INGGAHADNNVDFQEFNVLPVGPTSFSEA 180 AAAASNEQALWOYLAAFTGYTPSLPUPMMNIINGGAHADNNUDFORFMULPUGFTSESEA 140 AAAASNEQALWQYLAARTGVTPSLPVPMMNIINGGAHADNNVDFQEFNVLPVGFTSFSEA 180 AAAASNKOALWOYLAARTGVTPSLPVPMMNIINGGAHADNNVDFOEFMVLPVGFTSFSEA 180 AAAASNKOALWOYLAARTGVTPSLPVPMMN1INGGAHADNNVDFOEFMVLPVGFTSFSEA 180 AAAASNKOALWOYLAARTGVTPSLPVPMMNIINGGAHADNNVDFOEFNVLPVGFTSFSEA 180 AAAASNKOALWOYLAARTGVTPSLPVPMMNIINGGAHADNNVDFOEFMVLPVGFTSFSEA 180 AAAASNKOALWOYLAARTGVTPSLPVPMMNIINGGAHADNNVDFOEFMVLPVGFTSFSEA 180 AAAASNKOALWOYLAARTGYTPSLPVPMMNIINGGAHADNNVDFOEFMVLPVGFTSFSEA 180 AAAASNKQALWQYLAARTGVTPSLPVPMMNIINGGAHADNNVDFQEPNVLPVGPTSFSEA 180 AAAASNEGAEWOYLAARTGVTPSEPVPMMNTINGGAHADNNVDFORFMVLPVGPTSFSRA 180 AAAASNKGALWOYLAARTGUTPSLPUPMMNIINGGAHADNNUDFOEFMULPUGFTSFSEA 180 AAAASNEQALWQYLAARTGVTPALPVPMMNJINGGAHADNNVDFQEFMVLPVGFTSFSEA 180 AAAASNKQALWQYLAARTGVTPALPVPMMNIINGGARADNNVDFQEFKVLPVGFTSFSEA 180 AAAASNXQALWOYLAAKTGYTPALPVPMMNIINGGAHADNNVDFQEFMVLPVGFTSFSEA 180 AAAASNKQALWQYLAARTGVTPALPVPMMNIINGGAHADNNVDFQEFKVLPVGFTSFSEA 180 AAAASNXQALWQYLAAFTGYTPALFYPMMNIINGGAHADNNYDFQEFNYLFYGFTSFSEA 180 AAAASNKQALWQYLAARTGYTPALFVPMMNIINGGAHADNNVDFQEFMVLPVGFTSFSEA 180 AAAASNKQALWQYLAARTGVTPALPVPMMNIINGGAHADNNVDFQEFMVLPVGFTSFSEA 180 AAAASKKQALWQYLAQGB--DVTLPVPMMNIINGGAHADNNVDFQEFNVLPVGFPSFSEA 17H AAAASRKQALWQYLAQGR--DVTLPVPMMNIINGGAHADNNVDFQEFMVLPVGFPSFSEA 178 AVAASKKQALWQHLANGR--DVTLPVPMMNIINGGAHADNNVDFQEFMVLPVGFTSFSES 178 AVAASKKQALWQBLANGR-DVTLPVPMMNJINGGARADNNVDFQEFNVLPVGFTSFSES 178

Lung cystic fibrosisC

Ascites

Dentine caries

Oropharynx

Rectal swab3

Rectal swabl

Vascular ulcer

Catheter

Perineum

Pus1

Blood3

Ascites

Lungl

Lung2

Lung3

Mouth

Sputum2

Sputum3

Blood2

FOS1

Gut1

GutZ

Sputuml

Intestine

Rectal swab2

Urine3

Cerebrospinal fluidl Lung cystic fibrosisC Lung\_cystic\_fibrosisB Cerebrospinal fluid3 Oropharyngeal\_swab Thracheal\_aspirate Throat(pharynx) Cerebrospinal fluid2 Decubitus ulcer Lung cystic fibrosisA

GRGVERAVDNVNGATANALKDFEATDOAGLDRELIDLDGTENKGRLGANALLGVSMAAAH 120 GRGVRRAVDNVNTTIANALRGFEATDQDGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GEGVERAVDNVNTTIANALEGFEATDOAGLDERLIDLDGTENEGELGANALLGVSMAAAH 120 GRGVHRAVDNVNTTIANALKGFEATDQAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GKGVRKAVDNVNTTIANALKGFEATDOAGLDRKLIDLDGTENKGRLGANALLGVSMAAAH 120 GRGVRKAVHNVNTTIAAALKGLEATDQAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GEGVERAVDNVNTTIAAALEGFEATDQAGLDEELIDLDGTENEGELGANALLGVSMAAAH 120 GKGVHKAVDNVNTTIAAALKGFEATDQAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GRGVRRAVDNVNTTIAAALRGFEATDQAGLDRRLIDLDGTENRGRLGANALLGVSMAAAH 120 GEGVERAVDNVNTTIVAALEGFEATDQAGLDERLIDLDGTENEGELGANALLGVSMAAAH 120 GEGVERAVDNVNTTIVAALEGFEATDOAGLDERLIDEDGTENEGELGANALLGVSMAAAH 120 GEGVERAVDNYNTTIAAALEGFEATDQAGLDERLIDLDGTENEGELGANALLGVSMAAAH 120 GRGVRKAVDNVNTTIAAALRGFEATDQAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GRGVRRAVDNVNTTIAAALRGFEATDQAGLDRRLIDLDGTENRGRLGANALLGVSMAAAH 120 GKGVRKAVDNVNTTIAAALKGFEATDOAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GRGVRKAVDNVNTTIAAALEGFEATDQAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GKGVRKAVDNVNTTIAAALKGFEATDQAGLDKKLIDLDGTENKGKLGANALLGVSMAAAH 120 GEGVERAVDNVNTTIAAALEGFEATDQAGLDEELIDLDGTENEGELGANALLGVSMAAAH 128 GKGVRKAVDNYNTTIAAALNGFEATDOAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GEGVERAVDNVNTTIAAALEGFEATDOAGLDERLIDLDGTENEGELGANALLGVSMAAAH 120 GKGVRKAVDNVNTTIAAALKGFEATDQAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GEGVERAVDNVNTTIARALKGFEATDOAGLDERLIDLDGTENKGRLGANALLGVSMAAAH 120 GRGVRKAVDNVNTTIAAALRGFEATDQAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GEGVERAUDNVNTPTAAALEGFEATDOAGLDEBLIDLDGTENEGRIGANALIGVSMAAAH 120 GEGVERAVDNVNTTIAAALEGFEATDQAGLDEELIDLDGTENEGELGANALLGVSMAAAH 120 GKGVRKAVDNVNTTIAAALRGFEATDQAGLDERLIDLDGTENKGRLGANALLGVSMAAAH 120 GKGVRKAVDNVNTTIAAALKGFEATDQAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GKGVRKAVDNVNTTIAAALKGFEATDQAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GRGVRKAVDNVNTTIAAALKGFEATDQAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GKGVRKAVDNVNTTIAAALKGFEATDQAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GRGVRRAVDNVNTTIAAALRGFEATDQAGLDRRLIDLDGTENRGRLGANALLGVSMAAAH 120 GEGVERAVDNVNTTIAAALEGFEATDQAGLDERLIDLDGTENEGELGANALLGVSMAAAH 120 GKGVRKAVDNVNTTIAAALKGFEATDQAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GEGVERAVDNVMTFIAAALEGFEATDOAGLDERLIDLDGTENEGELGANALLGVSMAAAH 120 GRGVERAVDNVNTTIAAALKGFEATDQAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GEGVERAVDNVNTTIAAALEGFEATDOAGLDERLIDLDGTENEGELGANALLGVSMAAAH 170 GRGVRKAVDNVNTTIAAALRGFEATDQAGLDRRLIDLDGTENKGRLGANALLGVSMAAAH 120 GKGVRNAVSNVNTTIATALRGFDAADQEALDRELIDLDGTENEGRLGANALLAVSMANAH 120 GEGVENAVSNVNTTIATALEGFDAADQEALDERLIDLDGTENEGELGANALLAVSMANAH 120 GKGVENAVSNVNTTIATALEGFDAADOEGLDRRLIDLDGTENEGRLGANALLGVSLANAH 120 GRGVRNAVENVNYPPIATALAGFDAADQEGLDRRLIDLDGTENKGRLGANALLGVSLANAH 120 

LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIPHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGPAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 246 LRAGTEIFHSLKSVLRGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIPBSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIPHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIPHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIPHSLKSVLKGHGLSTAVGDEGGPAPDFRSNVEALDTILEAIGRAGYTAGEDVL 240 LRAGTEIFESLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIPHSLESVLEGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTETPHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEATGKAGYTAGEDVL 240 LRAGTEIPHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240  ${\tt LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL ~240}$ LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIPHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LWAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LHAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFBSLKSVLKGHGLSTAVGDEGGFAPDFKSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIPHSLKSVLKGHGLSTAVGDEGGPAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 240 LRAGTEIFHSLKSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 236 LRAGTEIFHSLRSVLKGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 238 LRAGTEIPHSLKSVLKGHGLSTAVGDEGGFAPDFHSNVEALDTILEAIGKAGYTAGEDVL 238 LRAGTEIFHSLKSVLRGHGLSTAVGDEGGFAPDFRSNVEALDTILEAIGKAGYTAGEDVL 238 

LGLDVASSEFFENGKYNLVGENKKLTSEOFVDFLADWAAQYPIITIEDGLAENDWAGWEL 300 Blood1 LTDRIGKKVQLVGDDLFVTNPKIFQEGIDSGTANAILIKVNQIGTLSETLEAIAMADRAG 360 Blood1 LTDRIGKEVOLVGDDLFVTNPHIFQEGIDSGTANAILIKVNQIGTLSETLEAIAMADRAG 360 Liver LGLDVASSEFFENGKYNLVGENKRLTSEQFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 LTDRIGKKVOLVGDDLFVTNPKIFOEGIDSGTANAILIKVNOIGTLSETLEAIAMADRAG 360 Urinel LGLDVASSEFFENGKYNLVGENKRLTSEOFVDFLADWAAOVPIITIEDGLAENDWAGWKL 300 Urinel Cerebrospinal fluidl LTDRIGKKVOLVGDDLPVTNPRIFOEGIDSGTANAILIKVNOIGTLSETLEAIAMADRAG 360 Cerebrospinal fluid1 LGLDVASSEFFENGKYNLVGENKRLTSEQFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 Dentine caries LGLDVASSEFFENGKYNLVGENERLTSEOFVDFLADWAAQYPIITIEDGLAENDWAGWEL 300 Dentine caries LTDRIGKKVQLVGDDLFVTNPKIFQEGIDSGTANAILIKVNQIGTLSETLEAIAMADRAG 360 LGLDVASSEFFENGKYNLVGENKRLTSEQFVDFLADWVAQYPIITIEDGLAENDWAGWKL 300 Oropharynx LTDRIGKEVOLVGDDLFVTNPKIFQEGIDSGTANAILIKVNQIGTLSETLEAIAMADRAG 360 Oropharynx LGLDVASSEFFENGKYNLVGENKRLTSEOFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 Lung cystic fibrosisC LTDRIGKKVQLVGDDLFVTNPHIFQEGIDSGTANAILIKVNQIGTLSETLEAIAMADRAG 360 Lung cystic fibrosisC LGLDVASSEFFENGKYNLVGENKRLTSEOFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 Catheter LTGRIGKEVOLVGDDLPVTNPKIFQEGIDSGTANAILIKVNQIGTLSETLEAIAMADRAG 160 Catheter LGLDVASSEFFENGKYNLVGENKKLTSEQFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 Urine3 LTDBIGKEVQLVGDDLFVTNPEIFQEGIDSGTANAFLIKVNQIGTLSETLEAIAMADRAG 360 Urine3 LGLDVASSEFFENGKYNLVGENKRLTSEGFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 Rectal swab3 LTDRIGKEVOLVGDDLFVTNPKIFQEGIDSGTANAFLIKVNQIGTLSETLEAFAMADRAG 360 Rectal swab3 Vascular ulcer LTDRIGKEVOLVGDDLFVTNPKIFOEGIDSGTANAILIKVNOIGTLSETLEAIAMADRAG 160 Vascular\_ulcer LGLDVASSEFFENGKYNLVGENKELTSEOFVDFLADWAADYPITTIEDGLAENDWAGWEL 300 Perineum LTDRIGKKVQLVGDDLFVTNPRIFQEGIDSGTANAILIKVNQIGTLSETLBAIAMADRAG 360 LGLDVASSEFFENGKYNLVGENERLTSEOFVDFLVDWAAOYPIITIEDGLAENDWAGWEL 300 Perineum Lung cystic fibrosisB LTDRIGKKVQLVGDDLPVTNPKIFQEGIDSGTANAILIKVNQIGTLSETLEALAMADRAG 360 Lung\_cystic\_fibrosisB LGLDVASSEFFENGKYNLVGENKELTSEOFVDFLADWAAOYPTITTEDGLAENDWAGWKL 300 Pusi LTDRIGKEVOLVGDDLFVTNPKIFOEGIDSGTANAILIKVNOIGTLSETLEAIAMADRAG 160 LGLDVASSEFFENGEVNLVGENERLTSEOFVDFLADWAAOVFITTIEDGLAENDWAGWEL 300 Pus1 LGLDVASSEPPENGKYNLVGENKRLTSBOFVDFLADWAAOVPTITTEDGLAENDWAGWKL 3G 0 Rectal swabl LTDRIGKKVQLVGDDLFVTNPKIFQEGIDSGTANAILIKVNQIGTLSETLEAIAMADRAG 360 Rectal swabl Blood3 LTDRIGHRYQLVGDDLFVTNPHIFQEGIDSGTANAILIHVNQIGTLSETLEAIAMADRAG 360 LGLDVASSEFFENGKYNLVGENKKLTSEQFVDFLADWRAQYPIITIEDGLAENDWAGWKL 300 Blood3 Ascites LTDRIGKEVQLVGDDLFVTNPRIFQEGIDSGTANAILIEVNQIGTLSETLEAIAMADRAG 360 Ascites LGLDVASSEFFENGKYNLVGENKKLTSEOFVDFLADWAAOYFIITIEDGLAENDWAGWKL 300 Cerebrospinal fluid3 LTDRIGKKVOLVGDDLFVTNPKIFOEGIDSGTANAILIKVNOIGTLSETLEAIAMADRAG 360 Cerebrospinal fluid3 LGLDVASSEFFENGKYNLUGENERLTSEOFVDFLADWAAOVPIITIEDGLAENDWAGWEL 300 LTDRIGKKVQLVGDDLFVTNPKIFQEGIDSGTANAILIKVNQIGTLSETLEAIAMADRAG 360 LGLDVASSEFFENGKYNLVGENKRLTSEOFVDFLADWAAOVPIITIEDGLAENDWAGWKL 300 Eve Lungi LTDRIGKKVQLVGDDLFVTNPKIFQEGIDSGTANAILIKVNQIGTLSETLEAIAMADRAG 160 Lungl LGLDVASSEFFENGKYNLVGENKRLTSEQFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 LTDRIGKKVQLVGDDLPVTNPKIFQEGIDSGTANAILIKVNQIGTLSETLEAIAMADRAG 360 Lung2 Lung2 LGLDVASSEFFENGKYNLVGENKRLTSEQFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 LTDRIGKKVOLVGDDLFVTNPKIFOEGIDSGTANAILIKVNOIGTLSETLEAIAMADRAG 360 Lung3 LGLDVASSEFFENGKYNLVGENKRLTSEQFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 Lung3 LTDRIGKKVOLVGDDLFVTNPKIFOEGIDSGTANAILIKVNOIGTLSETLEAIAMADRAG 360 Mouth LGLDVASSEFFENGKYNLVGENKRLTSEQFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 Mouth Oropharyngeal swab LTDRIGKKVOLVGDDLFVTNPKIFQEGIDSGTANAILIKVNQIGTLSETLEAIAMADRAG 360 Oropharyngeal\_swab LGLDVASSEFFENGKYNLVGENKRLTSEQFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 LGLDVASSEFFENGKYNLVGENKELTSEQFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 Pus2 LTDRIGREVOLVGDDLFVTNPEIFOEGIDSGTANAILIKVNOIGTLSETLEAIAMADRAG 360 LTDRIGREVOLVGDDLFVTNPKIFOEGIDSGTANAILIKVNOIGTLSETLEAIAMADRAG 360 LGIDVASSEFFENGKYNLVGENKELTSEQFVDFLADWAAQYPIITIEDGLAENDWAGWEL 300 Sputum2 Sputum2 LTDRIGKKVOLVGDDLFVTNPKIFOEGIDSGTANAILIKVNOIGTLSETLEAIAMADRAG 160 LGLDVASSEFFENGKYNLVGENKRLTSEOFVDFLADWAAOYPIITIEDGLAENDWAGWKL 300 Sputum3 Sputum3 Thracheal aspirate LTDRIGHEVOLVGDDLFVTNPHIFOEGIDSGTANAILIHVNOIGTLSETLEAIAMADRAG 160 Thracheal\_aspirate LGLDVASSEFFENGKYNLVGENKRLTSEOFVDPLADWAAOYPIITIEDGLAENDWAGWKL 300 LTDRIGKEVOLYGDDLFYTNPKIFOEGIDSGTANAILIKUNOIGTLSETLEAIAMADRAG 160 LGLDVASSEFFENGKYNLVGENKRLTSEOFVDFLADWAAOVFIITIEDGLAENDWAGWKL 300 Throat(pharynx) Throat (pharynx) LGLDVASSEFFENGKYNLVGENKRLTSEQFVDFLADWAAQYPIITIEDGLAENDWAGWEL 300 Urine2 LTDRIGKKVOLVGDDLFVTNPKIFOEGIDSGTANAILIKVNOIGTLSETLEAIAMADRAG 160 Urine2 LGLDVASSEFFENGKYNLVGENKRLTSEOFVDFLADWAAOYFIITIEDGLAENDWAGWKL 300 D457 LTDHIGKEVOLVGDDLFVTNPEIFOEGIDSGTANAILIEVNOIGTLSETLEAIAMADRAG 160 D457 Blood2 LTDRIGHEVOLVGDDLFVTNPHIFOEGIDSGTANAILIKVNOIGTLSETLEAIAMADRAG 360 LGLDVASSEFFENGKYNLVGENKRLTSEOFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 Blood2 Cerebrospinal\_fluid2 LTDRIGKEVQLVGDDLPVTNPKIFQEGIDSGTANAILIKVNQIGTLSETLEAIAMADRAG 360 Cerebrospinal fluid2 LGLDVASSEFFENGKYNLVGENKRLTSEOFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 Decubitus ulcer LGLDVASSEFFENGKYNLVGENKRLTSEQFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 Decubitus ulcer LTDRIGKEVOLVGDDLFVTNPKIFOEGIDSGTANAILIKVNOIGTLSETLEAIAMADRAG 360 Lung\_cystic\_fibrosisA Lung cystic fibrosisA LGLDVASSEFFENGKYNLVGENKRLTSEQFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 LTDRIGKEVOLVGDDLFVTNP#IFOEGIDSGTANAILIEVNOIGTLSETLEAIAMADRAG 360 LGLDVASSEFFENGKYNLVGENKRLTSEQFVDFLADWAAQYPIITIEDGLAENDWAGWKL 100 Rectal swab2 LTDRIGKKVOLVGDDLFVTNPKIFOEGIDSGTANAILIKVNOIGTLSETLEAIAMADRAG 160 Rectal swab2 LGLDVASSEFFENGKYNLVGENKRLTSEOFVDFLADWAAQYPIITIEDGLAENDWAGWKL 300 POST LTDRIGKKVQLVGDDLFVTNPRIFQEGIDSGTANAILIKVNQIGTLSETLEAIAMADRAG 160 FOS1 LGLDVASSEFYENGKYNLVGENKRLTSDOFVDFLADWAAOVPIITIEDGLAENDWAGWKL 298 Cont. 1 LTDNIGSKVOLVGDDLFVTNPKIFREGIESGTANAILIKVNOIGTLTETLEAIAMAHSAN 358 Gut1 Sputum1 LTDRIGSEVOLVGDDLFVTNPKIFKEGTESCTANATLIKVNOIGTLTETLEAIAMAHSAN 158 LGIDVASSEFYENGKYNLVGENKKLTSDOFVDFLADWAAOYFIITIEDGLAENDWAGWWL 298 Sputuml LGLDVASSEFYENGKYNLVGENKRLTSEOFVDFLADWAAOVPIITIEDGLAENDWAGWKL 29R LTDRIGNEVOLVGDDLFVTNPRIFREGIESGTANAILIKVNOIGTLTETLEAIAMAHAAN 158 Gut2 LTDRIGNEVOLVGDDLFVTNPRIFKEGIESGTANAILIEVNOIGTLTETLRAIAMAHAAN 358 LGT.DVASSEFYENGKYNLVGENKRLTSEOFVDFLADWAAOVPIITIEDGLAENDWAGWKL 298 Intestine Intestine YAAVVSHRSGETEDTTIADISVATTATQIKTGSLCRSDRVAKYNQLLRIEEALGAGARYA 420 Blood1 Blood1 GRDAFVSLER 430 YAAVVSHRSGETEDTTIADIAVATTATQIRTGSLCRSCRVAKYNQLLRIEEALGAGARYA 420 Liver Liver GRDAFVSLKR 430 Drine1 YAAVVSHRSGETEDTTIADISVATTATQIKTGSLCRSDRVAKYNQLLRIEEALGAGARYA 420 Urinel GEDAFVSLER 430 YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLRIEEALGAGARYA 420 Cerebrospinal fluidl Cerebrospinal fluid1 GRDAFVSLKR 430 Dentine caries YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDEVAKYNQLLRIBEALGAGARYA 420 Dentine caries GRDAFVSLER 430 YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLRIEEALGAGARYA 420 Oropharynx YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLRIEEALGAGARYA 420 Lung cystic fibrosisC Oropharynx GRDAFVSLKR 430 Lung cystic fibrosisC GRDAFVSLER 430 Catheter YAAVVSHRSGETEDTTIADIAVATTATQIRTGSLCRSQRVAKYNQLLRIERALGAGARYA 420 Catheter GRDAFVSLKR 430 Urine3 TAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLHIEEALGAGARYA #20 Urine3 GRDAFVSLKR 430 YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSQHVARYNQLLRIBEALGAGARYA 420 Rectal swab3 Rectal swab3 GRDAFVSLKR 430 YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLRIEBALGAGARYA 420 Vascular ulcer Vascular\_ulcer GHDAFVSLKR 430 YAAVVSHESGETEDTTIADIAVATTATQIKTGSLCRSDEVAKYNQLLHIEEALGAGARYA 420 Perineum Perineum GRDAFVSLKR 430 Lung\_cystic\_fibrosisB YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSGRVAKYNQLLKIEEALGAGARYA 420 Lung cystic fibrosisB GRDAFVSLKE 430 YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLRIEEALGAGARYA 420 Pusl GRDAFVSLER 430 YAAVVSHISGETEDTTIADIAVATTATQIKTGSLCKSEVAKYNQLAIEEALGAGAKYA 420 Rectal\_swabl
YAAVVSHISGETEDTTIADIAVATTATQIKTGSLCKSEVAKYNQLAIEEALGAGAKYA 420 Rectal\_swabl
YAAVVSHISGETEDTTIADIAVATTATQIKTGSLCKSEVAKYNQLAIEEALGAGAKYA 420 Ascites
YAAVVSHISGETEDTTIADIAVATTATQIKTGSLCKSEVAKYNQLAIEEALGAGAKYA 420 Cerebrospinal\_fluid3 Rectal swabl GEDAFVSLER 430 GRDAFVSLKR 430 Blood3 GRDAFVSLKR Ascites 430 Cerebrospinal fluid3 GRDAFVSLKR 430 YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCKSUVAKYNQLERIEEALGAGARYA 420 BYYAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCKSUVAKYNQLERIEEALGAGARYA 420 Lungi YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCKSUVAKYNQLERIEEALGAGARYA 420 Lungi YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCKSUKVAKYNQLERIEEALGAGARYA 420 Lungi YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCKSUKYAKYNQLERIEEALGAGARYA 420 LUNGI YAAVYSHRSGETEDTTIADIAVATTATQIKTGSLCKSUKYAKYNQLERIEEALGAGARYA 420 LUNGI YAAVYSHRSGETEDTTIADIAVATTATQIKTGSLCKSUKYAKYNQLERIEEALGAGARYA 420 LUNGI YAAVYSHRSGETEDTTIADIAVATTATQIKTGSLCKSUKYAKYNQLERIEALGAGARYA 420 LUNGI YAAVYSHRSGETEDTTIADIAVATTATQIKTGSLCKSUKYAKYNQLERIEALGAGARYA 420 LUNGI YAAVYSHRSGETEDTTIADIAVATTATQIKTGSLCKSUKYAKYNQLERIEALGAGARYA 420 LUNGI YAAVYSHRSGETEDTTIADIAVATTATQIKTGSLCKSUKYAKYNQLERIEA GRDAFVSLKR 430 Lung1 GRDAFVSLKR 930 Lung2 GRDAFVSLER 430 430 GRDAFVSLER Lung3 YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLRIEEALGAGARYA 420 Mouth GEDARVSLEE 430 Mouth YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVARYNQLLRIEEALGAGARYA 420 Oropharyngeal\_swab GPDAFVSLER 430 Oropharyngeal swab YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLRIEEALGAGARYA 420 Pus2
YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLRIEEALGAGARYA 420 Sputum2 GRDAFVSLER Pus2 Sputum2 CRDAFVSLER 430 YAAVVSHRSGETEDTTIADIAVATTATQIRTGSLCRSDRVAKYNQLLRIEEALGAGARYA 420 Sputum3 GEDAFUSIKE Sputum3 430. GRDAFVSLKR Thracheal aspirate YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLRIEEALGAGARYA 420 Thracheal\_aspirate 630 Throat (pharynx) YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLRIEBALGAGAHYA 420 Throat(pharynx) GRDAFVSLKE 0.50 Urinez YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLRIBEALGAGARYA 420 Urine2 GRDAFVSLKR 430 D457 YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLRIEEALGAGAKYA 420 D457 GRDAFVSLKR 430 YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLRIBEALGAGARYA 420 Blood2 GRDAFVSLKR 430 Blood2 Cerebrospinal fluidZ YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLRIBEALGAGARYA 420 Cerebrospinal\_fluid2 GRDAFVSLKR 430 YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCKSCRVAKYNQLLRIEEALGAGARYA 420 Decubitus\_ulcer YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCKSCRVAKYNQLLRIEEALGAGARYA 420 Lung\_cystic\_fibrosisA GRDAFVSLKR 430 Decubitus\_ulcer GEDAFVSLKE 630 Lung cystic fibrosisA Rectal swab2 YAAVVSHESGETEDTTIADIAVATTATQIKTGSLCRSDRVAKYNQLLRIEEALGAGARYA 420 Rectal\_swab2 GRDAFVSLKR 430 YAAVVSHRSGETEDTTIADIAVATTATQIKTGSLCRSGRVAKYNQLLRIEEALGAGARYA 420 FOS1 GRDAFVSLER 430 FOS1 TANVASHSGETEDTTIADIAVATTATQIATGSLCKSGVARTNQLIR EBALGAGARYA 418 GULL YAAVVASHSGETEDTTIADIAVATTATQIRTGSLCKSGVARYNQLIR EBALGAGARYA 418 Sputumi YASIUSHSGETEDTTIADIAVATTATQIRTGSLCKSGVARYNQLIR EBALGAGARYA 418 GULZ YASIVSHRSGETEDTTIADIAVATTATQIRTGSLCKSGVARYNQLIR EBALGAGARYA 418 GULZ YASIVSHRSGETEDNTIADIAVATTATQIRTGSLCKSGVARYNQLIR IBBALGAGARYA 418 Intestine GRDAFVSLKE 428 Gut1 GRDAFVSLKE 428 Sputum1 GRDAFVSLKE 428 Chit? Intestine GRDAFVSLKR 428

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## Phosphoglycerate mutase

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Sputum1 Gut2 Intestine Cerebrospinal\_fluid1 Dentine caries Oropharynx Urinel Sputum3 Lang 3 Sputum2 Urinez Bloods Bloodi Ascites Cerebrospinal fluid3 Lungl Lung2 Mouth Oropharyngeal swab Perineum Thracheal aspirate Throat (pharynx) Catheter Lung cystic fibrosisB Lung\_cystic\_fibrosisC Pus1 Rectal swabl Urine3 Liver POS4 Vascular ulcer Rectal swab3 Decubitus ulcer D457 Blood2 Cerebrospinal fluid? Lung cystic fibrosisA Rectal\_swab2 Sputum1

Intestine Cerebrospinal fluid1 Dentine caries Oropharynx Urine1 Sputum3 Sputum2 Urine2 Blood 3 Bloodi Anniene Cerebrospinal fluid3 Lung1 Lung2 Houth Oropharyngeal\_swab Perineum Pus2 Thracheal aspirate Throat(pharynx) Catheter Lung cystic fibrosisB Lung\_cystic\_fibrosisC Rectal\_swabl Urine3 Liver FOS4 Vascular ulcer Rectal swab3 Decubitus\_ulcer D457 Blood2

Cerebrospinal fluid2

Rectal swab2

Lung\_cystic\_fibrosisA

VTRKLVLLRHGGSQWNLDNRFTGWVDVELTEQGHREAAAAGRLHREEGLQFDVAHTSVLR 60 VTRKEVILIRHGOSOWNLDNRFTGWVDVELTEOGRREAAAAGREAREEGLOFDVAHTSVLR 60 VTRELVILLEHGOSOWNLDNEFTGWVDVELTEOGREEAAAAGRIBGEEGLOFDVAHTSVLK 50 VTRKLVLLRHGQ5QWMLDNHFTGWVDVELTEQGRREAAAGRLHREEGLQFDVAHTSVLK 50 TENLVILERHGOSOWNIDHERTGWVDVDL/TEOGREBAAAAGRILEREEGIOPDVAHTSVIE 50 VTHAT VILLEHGOSOWN DNE PTGWYDYDL TEOGRE BAAAAGUL HEEEGLOPDVAHTSVLH 60 VTHELVILERHGOSOWNLDBRFTGWVDVDLTEOGRHEAAAGHLMREEGLOFDVAHTSVLK 6D TEREVELRIGOSOWNEDNRPTGWVDVDLTEQGRREAAAAGREMREEGEOFDVAHTSVER VTRELVLLRRGOROWNLDNIPTGWVDVDLTROGCREAAAAGRLRREEGLOPDVARTSVLK 50 VTHREATERROSOWNEDNIEPTOWVDVDLTROGRERAAAGHEMRERGEOPDVAHTSVEK 50 VTRHIVILINGGSGWNLDNRFTGWVDVDLTEGGRFEAAAAGRLMREEGLGFDVAHTSVLK #0 TRELVLLRHGQSQWNLDNRFTGWVDVDLTEQGRREAAAAGRLHREEGLQFDVAHTSVLK VTRELVLLRHGQSQWNLDNRFTGWVDVDLTEQGRRBAAAAGELHRBEGLQPDVAHTSVLR 60 VTHELVELHHOOSOWNLDN#FTGWVDVDLTEOGRERAAAGSLMSEEGLOFDVAHTSVLT 60 VTRKLVLLRHGQSQWNLDNRPTGWVDVDLTEQGHREAAAAGRLMREEGLQPDVAHTSVLX TERLVLLRHGGSOWNLDNEFTGWYDVDLTEGGEREAAAAGELHEEEGLOPDVAHTSVLE UPDET UT LO BEAGOWNT INDEPENDENT PROCES PARAAGST MOEDER APPUA BEGUT & VTHKLVLLRHGQSQWNLDRRFTGWVDVDLTEQGRREAAAGHLMREEGLQFDVAHTSVLK 60 VTRELVLLRHGQSQWNLDNRFTGWVDVDLTEQGRREAAAAGRLRREEGLQFDVAHTSVLR 60 PTRELVELRHGOSOWNLDNRFTGWVDVDLTEQGHHEAAAAGRLHREEGLOFDVAHTSVLK 60 UTBELLIT LEHGOSOWN DNEPTGBUDVD TEOGREPANAGE NEETG OPDUARTSVILLE VTESLVLLRHGOSOWNLDNRFTGWVDVDLTEOGRREAAAAGRIMREEGLOPDVAHTSVLX 60 TRELVILERHGOSOWNLDNRFTGWVDVDLTEQGRREAAAAGELHREEGLOFDVAHTSVLE VTRXLVLLRHGOSOWNLDNRPTGWVDVDLTEOGRREAAAAGRLMREEGLOPDVAHTSVLR 60 VTERLVILLEHGOSOWNLDNRFTGWVDVDLTEOGREEAAAAGELHREEGLOFDVAHTSVLE VTRRLVLLRHGQSQWNLDNRFTGWVDVDLTEQGRREARAGRLHREEGLQFDVAHTSVLR THELVILINGGSOWNLONGFTGWVDVDLTEQGREEAAAAGRINKEEGIOFDVAHTSVIK 6 VTHREAT LERGOSOWNED NEPTOWYDYDE TROGRERAAAAGREMBEEGT OPDVARTSVER VTRHLVLLRHGOSOWNLDNRFTGWVDVDLTEOGRREAAAAGRLMREEGLOFDVAHTSVLK 60 VTRRLVLLRHGQSQWHLDNRFTGWVDVDLTEQGRPEAAAAGRLMREEGLQPDVAHTSVLR 60 TERLVILENGOSOWNLDNEFTGWVDVDLTEOGRREAAAGRINREEGLOFDVAHTSVLF 60 VTHELVILBEGOSOWN DNEPTGWUDVDLTEGGREEARAGELMREEGLOPDVARTSVLK 60 VTRELVLIREGOSOWNLDNRFTGWVDVDL/TEOGRREAAAAGELEREEGLOFDVAHTSVLE 60 VT#KLVLLRHGQSQWHLDNRFTGWVDVDLTEQGHREAAAAGRLHWEEGLQFDVAHTSVLK VTRELVLLEHGGSQWNLDHRFTGWVDVDLTEGGREEARAAGELHREEGLGFDVAHTSVLE 60 VTRELVLLRHGOSOWNLDNRFTGWVDVDLTEOGRREAAAAGRLMREEGLOFDVAHTSVLR 60 VTERLVLLRHGQSQWNLDNRFTGWVDVDLTEQGRREAAAAGRLMREEGLQFDVAHTSVLK 60 TERLYLLEHGOSOWHLDHEFTGWVDVDLTEGGREEAAAAGHLHREEGLOFDVAHTSVLR 60 TERLVILREGOSOWNLDNRFTGWVDVDLTEOGRREAMAGRIMREEGLOFDVAHTSVLK 60 UTRICAVILLENGOSOWNI, DNEFTGWVDVDLTROGREEAAAAGELNEEEGLOFDVAHTSVLE 60 VTRKLVLLRHGQSQWNLDRRFTGWVDVDLTEQGRKEAAAAGHLMKEEGLQFDVAHTSVLK 60 TAHGNSLRALYKYLNNVSQEATLELNIPTG THLLFELNDDLTVQSPHYLGDPEAARRAAE 240 TARGNSLEALYKYLNEVSQEATLELNIPTO PLLFELNOOLTVQSFKYLGDPEAARRAAE

Sputum1 TAHGNSLRALYEYLNNVSOEATLELNIPTN HLLFELNDDLTVQSFRYLGDPEAARRAAE 240 LLFELNDDLTVOSFRYLGDPEARKAAE TAHGNSLHALYKYLNNVSGEATLELNIPT TAHGNSLWALYKYLNNVSKEETLELNIPT PLLFELHODLTVQSFKYLGDPBAAKKAAB TAHGNSLEALYEYLNNVSREETLELNIPT PLLFELNDDLTVESFRYLGDPEAARKAAE 240 TAHGNSLEALYKYLNNVSREETLELNIPT HILPPINGSTTURGESVICASPAARVAAR 340 BLLFELRODLTVKSFKYLGDPEAAKKAAE 240 TAHGHSLHALYKYLNNYSREETLELNIPTY TARGNSLRAMVEYLNNUSSEETLELNIPT PLLFELNDDLTVQSFRYLGDPEAARKAAE 240 Sputum3 TAHGNSLRAMYKYLNNYSREETLELNIPT LLFELNODLTVQSFHYLGDPEARKAAE 240 Lunu3 TARGET DAMPHYL NEUGRETT PLATER PLLFELNDDLTVOSFRYLGDPEAARKAAE 240 Sputum2 TAHGHSLOAMYKYLNNVSHEETLELNIPTO LLFELNDDLTVOSFRYLGDPEAARKAAE 240 TAHGNSLRALYKYLNNYSREETLELHIPT ILLFELRODLTVQSFHYLGDPEARKAAE 240 Blood3 TAHGNSLRALYKYLNNYSRDEILELNIPT PLLFELNDDLTVQSFRYLGDPEAARRAAE 240 Blood1 TARGET DALVEYI MEUCHETT PLATER LLFELNDDLTVOSPRYLCDPEAARKAAE 240 Ascites TARGNSLRALYKYLNNVSREEILELNIPT LLFELNODLTVOSFRYLGDPEARKAAR 240 PLLFELHODLTVQSFRYLGDPEAARRAAE 240 TAHGNSLRALYKYLNNVSREETLELNIPT TAHGNELBALYKYLNNVSREETLELNIPT LLFELNDDLTVQSFRYLGDPEAARRAAE 240 Lungi TAHGNSLRALYKYLNNVSREETLELNIPT HLIFELNOOLTVOSFRYLGDPEAARKAAE 240 Luna TAHGNSLRALYKYLNNVSREETLELNIPT LIFELNDDLTVQSFRYLGDPEAARRAAE 240 Mouth TAHGNSLHALYKYLNNVSREETLELNIPT LLFELNDDLTVQSFRYLGDPEAARKAAE 240 TARGNELRALYKYLNNYSKEETLELNIPT PLLFELNDDLTVOSFRYLGDPEAARKAAE 240 TAHGNSLEALYKYLNNYSREETLELNIP LIFELNOOLTVOSPRYLGOPEAARKAAE 24 Pilis 2 TAHGNSLEALYKYLNNVSHEETLELHIPT LIFELNDDLTVQSFHYLGDPEAARKAAE 240 TAHGNSLRALYKYLNWYSREEILELNIPT LLPELNDDLTVQSFRYLGDPEAARKAAE TAHONSLUALYKYLNNUSREETLELNIP LLFELNDDLTVOSFRYLGDPEAARKAAE 240 Catheter TARGNSLRALYKYLNNVSREETLELNIPT LIPELNODLTVOSPHYLGDPEARKAAE 240 TAHGNSLRALYKYLNNVSREEILELNIPT LFELNDDLTVQSFKYLGDPEAARKAAE 240 TAHGNSLHALYKYLNNYSREETLELNIP LLFELNDDLTVQSFHYLGDPEAARKAAE 240 Pusl TAHGNSI, RALVKYLNNUSDERTLELNIPT LIFELNDDLTVOSFRYLGDPBARKAAE 240 TAHGNSLRALYKYLNNYSREEILELNIPT LLPELNDDLTVOSPHYLGDPEAAHKAAE 240 Urine3 TAHGNSLHALY YLNNVSREETLELNIPT LLFELNDDLTVQSFRYLGDPEAARFAAE 240 Liver TAHGNSLHALYKYLNNVSREETLELNIPT LLFELNDDLTVQSFRYLGDPEAARKAAE 240 POS4 TARGEST SALVEYENING SEETLETNIPS LIPETHODITVOSPRVIGOPRANHAAR 240 TAHGNSLRALYKYLNNVSREETLELNIPT FLIFELNDDLTVOSFRYLGDPEAARRAAE 240 TAHGNSLHALYKYLNNVSREEILELHIPT LLFELNDOLTVQSFRYLGDPEARRAAE 240 TAHGNSLRALYKYLNNVSREEILELNIPT PLLFELNDDLTVQSPRYLGDPEAARRAAE 200 0457 TAHGUSLUALYKYLNUVSREEILELUIPTG FLLFELUDDLTVOSFRYLGDPEAAUKAAE 240
TAHGUSLUALYKYLNUVSREEILELUIPTG FLLFELUDDLTVOSFRYLGDPEAAUKAAE 240 Blood2 TAHGNSLRALYKYLMNVSREEILELNIPTO PLLFELNDDLTVQSF--

TAHGNSLRALYHYLNNYSREETLELNIPTGJHLLFELNDDLTVQSFRYLGDPEAARKAAE 240

Intesting Cerebrospinal fluid: Dentine caries Oropharynx Urinel Sputum3 Lung3 Urine? Blood3 Ascites Cerebrospinal fluid3 Lungi Lung2 Mouth Oropharyngeal swab Dise 2 Thracheal aspirate Throat (pharynx) Catheter Lung\_cystic\_fibrosisB Lung cystic fibrosisC Rectal\_swabl Urine3 Liver Vascular\_ulcer Rectal swabl Decubitus ulcer Blood2 Cerebrospinal fluid2 Lung cystic fibrosisA Rectal swab2

Snutum

AVAROGEAE **AVANOGRAS** AVANOGKAN Intestine AVANOGRAE Cerebrospinal fluidi AVAHOGRAE Dentine caries AVANOGNA Oropharynx AVANOGRAF AVANOGRAS AVANOGRAE AVANOGRAS AVANOGRAP AVANOGRAR AVANOGRAE AVANOGKAK AVANOGRAS Cerebrospinal\_fluid3 AVANOGRAS AVAHOGRAN AVANOGRAM AVAHOGEAS AVANOGRAS Oropharyngeal swab AVANOGRAM Perineum AVANOGRAD AVAHOGYAN Thracheal aspirate AVAROGKAR Throat (pharynx) AVANOGRAM AVANOGRAK Lung\_cystic\_fibrosisB AVANOGEAE Lung cystic fibrosisC AVANOGRAS AVAHOGRAN Rectal swab! AVANQCKA! AVAROGKA AVAHOGRAN AVANOGKAN Vascular ulcer AVANOGRAS AVAHOGRAK Rectal swab3 Decubitus ulcer AVAHOGEAK AVANOGRAN AVANOGRAS Cerebrospinal fluid2 AVANOGRASI Lung\_cystic\_fibrosisA AVANOGRAE Rectal swab2

MAIHTLOGALARLDODWLPVSKSWRLNERHYGGLOGLDKARTAAKHGEDOVKIWHRSYDI 120 WAIHTLOGALAELDODWLPVSKSWRLNERHYGGLOGLDRAETAAKHGEDOVKIWRRSYDI 170 RAIHTLOGALAELDODWLPYSKSWRLNERHYGGLOSLDKAETAAKHGEDOVKIWHKSYDI HATHTLQGALAELDQDWLPYSKSWRLNERHYGGLQGLDKAETAAKHGEDQVKIWHRSYDI 120 Cerebrospinal fluidl RAIRTLOGALAELEODWLPVNKSWRLNERHYGGLOGLDKAETAARHGEDOVKVWKRSYD1 RAIHTLOGALAELEODWLPVN/SWRLNERHYGGLOGLDRAETAAKHGEDOV/VWRRSYDI Dentine caries #AIHTLGGALAELEODWLPVN#SWRLNERHYGGLOGLDKAETAAKHGEDOV#VWRRSYDI HATHTLOGALARI RODWI, PVNESSWELDREH VOGLOGI, DEARTAAR HORDOVE VWERS VD. 120 WAIHTLOGALAELEODWLPVNKSWRLNERHYGGLOGLDKAETAAKHGEEOVKVWRRSYDI 120 HAIHTLQGALAELEQDWLPVN#SWRLNERHYGGLQGLDRAETAA#HGEEQV#VWHRSYDI Sputum2 HATPTLOGALARLEODWLPVNKSWRLNERHYGGLOGLDKARTAAKHGEROVKVWRRSYDT 120 HAT PTLOGALARI FORM, PUNK SWRINE HAYGOLOGI DI AFTAARROFROVEVIERS VIT 120 RAIHTLQGALAELQQDWLPVNRSWRLNERHYGGLQGLDRAETAARHGEEQVKVWRRSYDI 120 Bloods RATHTLOGALAELEODWLPYNKSWRLNERHYGGLOGLDHAETAAKHGEROVKVWRRSYDI Bloodt HATHTLOGALARLEODWLPVN#SWRLNERHYGGLOGLGKARTAAKHGEKOV#VWHRSYD1 Cerebrospinal fluid3 HATHTLOGALARLEDOWLEVNESWILNERHYGGLOGLDEAFTAAKHGEFOVEVWERSYDT PAIHTLQGALAELEQDWLDVNKSWRLNERHYGGLQGLDKAETAAKBGEEQVKVWFRSYDI #AIHTLOGALAELEODWLPVNKSWRLNERHYGGLOGLDKAETAAKHGEEOVKVWKRSYDI HAIHTLOGALABLEODWLPVNKSWRLNERHYGGLOGLDKAETAAKHGEEOVKVWRRSYDI 120 BATHTLOGALARLEODWLPVNISWRLNERHYGGLOGLDRAFTAAKHGEROVKVWRRSYDT RAIHTLQGALAELEQDWLPVNKSWRLNERHYGGLQGLDKAETAAKHGEEQVKVWRRSYDI Oropharyngeal swab RAIHTLQGALAELEQDWLPYNKSWRLNERHYGGLQGLDKAETAAKHGEEQVKVWRKSYDI Perineum BATHET OCALARI PODGE BUNG SWELLERS HYGGE OCLUMARY AND SPECIAL OCCUPANTS OF THE SPECIAL OCCUPANTS Thracheal aspirate MAIHTLOGALAELEODWLPVNKSWRLNERHYGGLOGLDKAETAAKHGEEOVKVWRRSYD1 RATHTLQGALAELEQDWLPVNKSWKLNERHYGGLQGLDKAETAAKHGEEQVKVWKRSYDI Throat (pharynx) Catheter HAIHTLOGALAELEODWLPVNRSWRLNERHYGGLOGLDRAETAAKHGEEOVEVWRRSYDI Lung cystic fibrosisB HAT HTT OGALART RODGE DUNES WIT NRUHWOOL OCLD PARTAL RICREOUT WORLS VIT Lung cystic fibrosisC RAIHTLQGALAELEQDWLPVNKSWRLNERHYGGLQGLDKAETAAKHGEEQVKVWRRSYD1 DAIHTLQGALAELEQDWLPVNKSWRLNERHYGGLQGLDKAETAAKHGEEQVKVWRRSYDI Pusl Rectal swab! HATHTLOGALAST RODWL PYNKSWELNESHYGGLOGLDKASTAAKBGEROVKVWERS YDT BATHTLOGALABLEODWLPVNKSWRLNERHYGGLOGLDHAETAAHHGEEOVEVWRRSYDT 120 #AIHTLQGALAELEQDWLPVNKSWHLNERHYGGLQGLDRAETAAKHGEDQVKVWHRSYDI RATHTLQGALAELEQDWLPVN#SWRLNERHYGGLQGLDKAETAAKHGEEQVKVWR#SYDI FOS4 Vascular ulcer BATHTLOGALACI.CODWLPVNCSWRINERHYGGLOGLOCACTAACHGECOVEVWERSYDT MAIHTLOGALAELEODWLPVNHSWRLNERHYGGLOGLDKAETAAKHGEEOVKVWRRSYDI Decubitus ulcer RATHTLQGALAELEQDWLPYNKSWRLNERHYGGLQGLDRAETAAKHGEEQVKVWKRSYDI D457 #AIHTLOGALAELEODWLPVNHSWHLNERHYGGLOGLDRAETAAKHGEEOVKVWHRSYD1 120 HAIHTLOGALAELEODWLPVNKSWKLNERHYGGLOGLDKAETAAKHGEROVKVWHRSYDI 120 RAIHTLOGALAELEODWLPVNKSWRLNERHYGGLOGLDKAETAAKHGEEOVKVWRRSYDI 120 Cerebrospinal fluid2 \*AIHTLOGALAELEODWLPVNKSWELNERHYGGLOGLDKAETAAKHGEEOVKVWRKSYDI Lung cystic fibrosisA RAISTLQGALAELEQDWLFYNKSWKLNERSYGGLQGLDKAETAAKBGEEQV#VWKRSYDI 120 Rectal swab2

PPPAMDREDPGHFIHDRRYAGLDRNALPGTESLATTLDRVLPYWFDSIAPOLRDGRTVLV 180 PPPAMD#EDPGHPIHD##YAGLD#NALPGTESLATTLD#VLPYWPDSIAPOL#DG#TVLV 180 PPPAMDIEDPGHPIHDHRYAGLDRNALPGTESLATTEDRVLPYWFDSIAPOLEDGETVLV 180 PPPAMDVEDPGRPIHDRRYAGLDRMALPGTESLATTLDRVLPYWFDSIAPQLRDGKTVLV 180 PPPAMDLEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPOLRDGRTVLV 180
PPPAMDLEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPOLRDGRTVLV 180 PPPAMDLEDPGHPIHDHRYAGLDKNALPGTESLATTLDRVLPYWHDAIAPQLRDGRTVLV 180 PPPAMDLEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPQLWDG&TVLV 180 PPPPMELEDPCHPTHDRHYAGLDHNALPCTESLATTLDRVLPYWHDATAPOLEDCETVLV 180 PPPPMELEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPQLRDGRTVLV 180 PPPPMELEDPGHPIHDHHYAGLDRNALPGTESLATTLDHVLPYWHDAIAPQLEDGNTVLV 180 PPPPMELEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPQLKDGKTVLV 180 PROPERTY OF THE PROPERTY OF TH PPPPMELEDPGHPIHDHRYAGLDRNALPGTESLATTLDRVLPYWRDAIAPQLWDGRTVLV 180 PPPPMELEDPGHP ( HDHRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPQLRDGRTVLV 1 HO PPPPMELEDPGHPCHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPQLHDGXTVLV 188 DEPENDED THE STATE OF THE STATE PPPPMELEDPGHPIHDHRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPOLEDGETVLV 180 PPPPMELEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPOLEDGRTVLV 180 PPPPMELEDPGHPIHDHRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPOLKDGRTVLV 180 PREPARET PRECUPE THREE VACTORINAT PROPERT ATTE DOWN DVALUE AROUT PROCESSING PPPPMELEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPQLKDGKTVLV 180 PPPPMELEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPOLKDGKTVLV 180 PPDPMPLEDBGHPIHDHEVAGI.DENAI.PGTESIATTI.DEVI.PVWBDATAPOI.EDGETVLV 180 PPPPMELEDPGHPIHDHRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPOL#DGKTVLV 180 PPPPMDLEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPQLKDGKTVLV 180 PPPFMDLEDPGHPIHDRHYAGLDRNALPGTESLATTLDRVLPYWHDAIAPQLKDGKTVLV 180 PPPPMDLEDBGHPTHDHEVAGLDRNALPGTESLATTLDHVLBYWHDATAPOLEDGETVLV 180 PPPPMDLEDPGHPTHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPOLEDGETVLV 180 PPPPMDLEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAEAPQLRDGKTVLV 180 PPPPMDLEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPQLRDGRTVLV 188 PPPPMDLEDBGHPIHDHEVAGLDENALBGTESLATTLDRVLPVWHDATAPOLEDGETULU 180 PPPPMDLEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPOLEDGFTVLV 180 PPPPMDLEDPGHPIHDRHYAGLDRNALPGTESLATTLDRVLPYWHDAIAPQLKDGKTVLV 180 PPPPMDLEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPQLRDGRTVLV 180 PPPPMDLEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPOLEDGKTVLV 180 PPPPMDLEDPGHPIHD#SYAGLDSNALPGTESLATTLDSVLPYWHDAIAPOL#DGKTVLV 180 PPPPMDLEDPGHPTHDRRYAGLDRNALPGTESLATTLDRVLPYWHDATAPOLKDGKTVLV 180 PPPPMDLEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWEDAIAPQLRDGRTVLV 180 PPPPHDLEDPGHPIHDRBYAGLDRNALPGTESLATTLDRVLPYWHDATAPOL/DGKTVLV 180 PPPPMDLEDPGHPIHDRRYAGLDRNALPGTESLATTLDRVLPYWHDAIAPQLKDGKTVLV 180  $\mathbf{C}$ 

## Glyceraldehyde-3-phosphate dehydrogenase

Gut1 MAINVGINGFGRIGRNYLRSAVLNFGNDIEIVAINDLLEPDYLAYMLKYDSVHGRFKADV 50 Gutl Sputum1 MAIRYGINGFGRIGRNVLRSAVLNFGNDIEIVAINDLLEPDYLAYMLRYDSVHGRFRADV 60 Gut 2 MATEVGINGEGETGENVLESAVLNEGNDIE IVAINDLLEEDVLAVNLEVOSVEGEPKADV 50 MAIKVGINGFGRIGHNVLRSAVLNFGNDIEIVAINDLLEPDYLAYMLKYDSVHGRFKADV 60 Intestine Intestine Dentine caries MAIKVGINGFGRIGRNVLRSAVLNFGDDIEIVAINDLLEPDYLAYMLRYDSVHGRFKADV Dentine\_caries MATKYGINGFGRIGHNYLRSAVLNFGDDIE IVAINDLLEPDYLAYMLKYDSVHGRFKADV 60 Oropharynx MAIKUGINGFGHIGHNULHSAVLNFCDDIRIVAINDLLEPDYLAYMLKYDSVHGHFKADU 60 Dropharynx Cerebrospinal fluid2 Cerebrospinal fluid? MAINVGINGEGRIGHWYLRSAVINPGDDIRIVAINDLIRPDYLAYMLKYDSVEGREKADV 60 MAIKVGINGFGRIGRNVLRSAVLNFGDDIEIVAINDLLEPDYLAYMLRYDSVHGRFKADV 60 Catheter Catheter Lung\_cystic\_fibrosisB MAINVGINGFGRIGHNVLRSAVLNFGDDIE IVAINDLLEPDYLAYMLEYDSVHGRFKADV Lung\_cystic\_fibrosisB MAIKVGINGFGRIGHNVLRSAVENFGDDIEIVAINDLLEPDYLAYMLKYDSVHGRFKADV 60 Rectal swabl MAIKYGINGFGRIGHNYLRSAVLNFGDDIEIVAINDLLEFDYLAYMLEYDSVEGRFRADV 60 Rectal swab1 MATEUCINGFORTGHNULPSAVINPGDDIETUATNDLLEPDYLAYMLEVDSUBGHPEADV 50 Urine3 Urine3 Bloodl MAIKYGINGFGHIGHNYLRSAVLNFGDDIEIVAINDLLEPDYLAYMLKYDSVHGRFKAEV 60 Blood! MAIKVGINGFGRIGHNVLRSAVLNFGDDIE IVAINDLLEPDYLAYMLKYDSVEGRPKADV Lung cystic fibrosisC MAIKVGINGEGRIGHNVLRSAVLNEGDDIEIVAINDLLEPDYLAYMLKYDSVEGREKADV 60 Lung cystic fibrosisC Decubitus ulcer MATEUCTNOPOSTOUNULSSALENPONTETUATROLLEPOYLAYMI EVISURGEPEADV Decubitus ulcar Cerebrospinal\_fluid3 Cerebrospinal\_fluid3 MAINVGINGEGRIGHNVLRSAVLNEGDDIEIVAINDLLEEDYLAYMLRYDSVHGREKADV 60 MAINVGINGFGRIGRNVLRSAVLNFGDDIEIVAINDLLEPDYLAYMLHYDSVHGRFKADV Lungi Lungl MAIKVGINGFGRIGHNVLRSAVLNFGDDIEIVAINDLLEPDYLAYMLEYDSVHGRFKADV Throat (pharynx) WATHURINGPORTGRAUT REQUIRED TO THE TWO LED BY AVMILLARY BY AND LAND THE PROPERTY AND THE PR Throat (pharynx) MATEVOINGEGETGENVI. ESAVINEGEDIE IVAINDLI. EPDYLAVELE VOSVEGERKADV 50 D457 D457 MAIKVGINGFGRIGHNVLRSAVLNFGDDIE IVAINDLLEPDYLAYMLKYDSVHGRFKADV 60 Ascites Ascites MAIKVGINGFGRIGRNVLRSAVLNFGDDIEIVAINDLLEPDYLAYMLKYDSVHGRFKADV Blood3 MAINVGINGFGRIGRNVLRSAVLNFGDDIEIVAINDLLEPDYLAYMLRYDSVRGRFRADV 60 Blood3 Cerebrospinal fluidl Cerebrospinal fluid1 MAINUCTNOPOUTCHBUT JOANS NECENTE TVATERILE PROVINCE VOCUMOPERNY 50 MATEVGINGEGRIGENVERSAVENEGDDIE TVAINDLEEPDYLAYMER VOSVHGREKADV 50 Eve AIKVGINGFGRIGRNVLRSAVLNFGDDIEIVAINDLLEPDYLAYMLKYDSVHGRFKADV 60 Liver MAIRVGINGFGRIGHNYLRSAVLNFGDDIEIVAINDLLEPDYLAYMLKYDSVHGRFRADV 60 Lung3 Lung\_cystic\_fibrosisA MATKYGTNGPGRTGBNYLBSAVLNPGDDTRTVATNDLLEPDYLAYNLKYDSVHGRPKADV Lung\_cystic\_fibrosisA MAINVGINGFGRIGHNVLRSAVLNFGDDIEIVAINDLLEPDYLAYMLKYDSVHGRFRADV Oropharyngeal swab Oropharyngeal swab MAIKYGINGFGRIGHNYLRSAVLNFGDDIEIVAINDLLEPDYLAYMLKYDSVHGKFKADV Perineum MAINVGINGFGRIGRNVLRSAVLNFGDDIEIVAINDLLEPDYLAYMLHYDSVHGRFKADV Rectal swab2 MAIRYGINGFGRIGRNVLASAVLNFGDDIEIVAINDLLEPDYLAYMLKYDSVHGRFKADV 50 Rectal swab2 Rectal swab3 MAIKYGINGFGRIGENVLHSAVLNFGDDIEIVAINDLLEFDYLAYMLEYDSVHGHFKADV 60 Rectal swabl MAIRVGINGFGRIGHRVLRSAVLRFGDDIEIVAIRDLLEPDYLAYMLRYDSVHGRFRADV 60 Sputum2 Sputum2 Sputum3 MAIRYGINGFGRIGHNYLRSAVLNFGDDIEIVAINDLLEPDYLAYMLKYDSVBGREKADV 60 Sputum3 MAIKVGINGFGRIGREVLESAVLNFGDDIEIVAINDLLEPDYLAYMLKYDSVHGRFKADV Thracheal aspirate Thracheal aspirate Drine2 MAIKVGINGFGRIGHNVLHSAVLNFGDDIE IVAINDLLEPDYLAYMLKYDSVHGRFKADV 60 ttrine? MAIRVGINGFGRIGRNVLRSAVENFGDDIEIVAIRDLLEPDYLAYMLKYDSVHGRFKADV 60 Vascular ulcer Vascular ulcer FOS7 MAIRYGINGFGRIGANVLRSAVLNFGDDIEIVAINDLLEFDYLAYMLRYDSVHGRFRADV 60 FOS7 ATATORTVDGPSNRDWRGGRGILENIIPSSTGAAKAVGVVIPELNKKLTGMSFHVPTSDV 240 Gutl Sputuml ATATORTVDGPSNEDWRGGRGILENIIPSSTGAAKAVGVVIPELNEKLTGMSFRVPTSDV 240 Sputuml ATATOKTVDGPSNKDWNGGRGILENIIPSSTGAAKAVGVVIPELNKKLTGMSFKUPTSDV 240 Gut2 Gut2 Intestine ATATOKTVDGPSNKDWRGGRGILENIIPSSTGAAKAVGVVIPELNKKLTGMSFKVPTSDV 240 Intestine ATATO TVDGPSNIDWRGGRGILENIIPSSTGAARAVGVVIPELNKKLTGMSFRVPTSDV 240 Dentine\_caries Dentine caries ttrine1 ATATORTVDGPSNEDWEGGEGILENTIPSSTGAAKAVGUVIPRINEKITGMSPRVPTSDV 240 Urinel ATATOXTVDGPSNKDWRGGRGILENTIPSSTGAAKAVGVVIPELNKKLTGMSFRVPTSDV 240 Oropharynx Oropharynx Cerebrospinal fluid2 ATATOXTVDGPSNEDWRGGRGILENIIPSSTGAANAVGVVIPELNEKLTGMSFRVPTSDV 240 Cerebrospinal fluid2 ATATOKTVDGPSNKDWRGGRGILENIIPSSTGAAKAVGVVIPELNKKLTGMSFRVPTSDV 240 Catheter Catheter Lung\_cystic\_fibrosisB ATATOSTVDGPSNEDWEGGEGILENTIPSSTGAAKAVGUVIPELNKELTCMSPEUPTEDV 240 Lung cystic fibrosisB ATATOKTVDGPSNEDWRGGRGILENIIPSSTGAARAVGVVIPELNERLTGMSFRVPTSDV 240 Pusl Pus1 Rectal\_swab1 ATATOKTVDGPSNKDWRGGRGILENIIPSSTGAAKAVGVVIPELNKSLTGMSFRVPTSDV 240 Rectal swabl Urine3 ATATOKTVDGPSNKDWRGGRGILENIIPSSTGAAKAVGVVIPELNKKLTGMSFKVPTSDV 240 Urine3 BloodI ATATOKTVDGPSNKDWRGGRGILENIIPSSTGAAKAVGVVIPELNKKLTGMSFRVPTSDV 240 Blood1 ATATOKTVDGPSNEDWEGGEGILENIIPSSTGAAKAVGVVIPELNKELTGMSFRVPTSDV 240 Mouth Mouth Lung\_cystic\_fibrosisC ATATORTVDGPSNKDWkGGRGILENIIPSSTGAAKAVGVVIPELNKKLTGMSFKVPTSDV 240 Lung\_cystic\_fibrosisC ATATOKTYDGPSNKDWKGGKGLLENIIPSSTGAAKAYGYVIPELNKKLTGMSFRVPTSDV 240 Decubitus\_ulcer Cerebrospinal\_fluid3 ATATORTVDGPSNEDWRGGHGILENIIPSSTGAARAVGVVIPELNKELTGMSFRVPTSDV 240 Cerebrospinal fluid3 ATATOKTVDGPSNKDWEGGHGILENIIPSSTGAAKAVGVVIPELNKKLTGMSFKVPTSDV 246 Lungl Lungi ATATOKTVDGPSNEDWIGGEGELENTIPSSTGAAKAVGVVIPELNKELTGMSFRVPTSDV 240 Lung2 Lung2 Throat (pharynx) ATATOKTVDGPSNKDWRGGRGILENIIPSSTGAAKAVGVVIPBLNKKLTGMSFRVPTSDV 240 Throat(pharynx) 0457 ATATOR TUNGPENED WEST CHARLES TO STORY AND THE STORY OF T ATATOKTVDGPSNEDWEGGEGILENIIPSSTGAAKAVGVVIPELMEKLTGMSPEVPTSDV 240 Ascites Ascites Blood2 ATATOKTVDGPSNEDWRGGRGILENIIPSSTGAAXAVGVVIPELNKELTGMSFRVPTSDV 240 Blood2 ATATOKTVDGPSNKDWRGGRGILENIIPSSTGAAKAVGVVIPELNKKLTGMSFRVPTSDV 240 Blood3 Blood3 ATATOUT VOGE CHURWEGG GTT ENT TESSTORAVA VOUV TEST MUST TOMS FRUPTSDV 210 Cerebrospinal fluid! Cerebrospinal\_fluid1 ATATOKTVDGPSN-DWEGGRGTLENTIPSSTGAAKAVGVVIPELNKULTGMSFEVPTSDV 240 Eve Liver ATATOKTVDGPSNKDWRGGRGILENIIPSSTGAAKAVGVVIPELMKKLTGMSFRVPTSDV 140 Live: ATATOKTVDGPSNKDWRGGRGILENIIPSSTGAAKAVGVVIPELNKKLTGMSFRVPTSDV 240 Lung3 Lung3 Lung cystic fibrosisA ATATORTVDGPSNEDWRGGRGILENIIPSSTGAARAVGVVIPELNEKLITGMSFRVPTSDV 246 Lung cystic fibrosisA ATATOKTVDGPSNKDWRGGKGILENIIPSSTGAAKAVGVVIPELNKKLTGMSFRVPTSDV 240 Oropharyngeal swab Oropharyngeal swab Perineum ATATOKTVDGPSNKDWRGGRGILENIIPSSTGAAKAVGVVIPELMKKLTGMSFKVPTSDV 240 Perineum ATATOKTVDGPSNKDWRGGRGILENTIPSSTGAAKAVGVVIPELNKKLTGMSFRVPTSDV 240 Pus2 Rectal swab2 ATATOKTVDGPSNFDWRGGRGILENIIPSSTGAAKAVGVVIPELNKKLTGMSFRVPTSDV 240 Rectal sweb2 ATATOKTVDGPSNKDWRGGRGILENIIPSSTGAAKAVGVVIPELNKKLTGMSFRVPTSDV 240 Rectal swab3 Rectal swab3 ATATOKTVDGPSNKDWRGGRGILENIIPSSTGAAKAVGVVIPELNKKLTGMSPRVPTSDV 240 Sputum2 Sputum2 ATATORTVDGPSN&DWRGGRGILENIIPSSTGAAKAVGVVIPELNKKLTGMSFRVPTSDV Z40 Sputum3 Sputum3 Thracheal aspirate ATATOKTVDGPSNKDWRGGHGILENIIPSSTGAAKAVGVVIPELNKKLTGMSFKVPTSDV 240 Thracheal aspirate ATATORTVDGPSNKDWRGGRGLLENIIPSSTGAAKAVGVVIPELNKKLTGMSFKVPTSDV 240 Urine2 Urine2 ATATORTVDGPSNEDWRGGRGLENIIPSSTGAARAVGVVIPELNEELTGMSFRVPTSDV 240 Vascular ulcer Vascular ulcer ATATOKTVDGPSNKDWRGGRGILENIIPSSTGAAKAVGVVIPELNKKLTGMSPRVPTSDV 240 FOS7

AVSGCDLLVNGKKIRLTGERDPSNLRWDEVGVDVVIESTGLFLTKDTAGKHIDAGAKKVI 120 Sputumi AVSGNOLLVNGKEINLTOERDPANLEWDEVGVDVVIESPGLFLTRETAORHIDAGAEEVI 124 Gut 2 AVSGNDLLVNGKKIRLTOERDPANLKWDEVGVDVVIESTGLFLTKETAOKHIDAGAKKVI 120 Intestine AVQGNDLLVNGKKIRLTQERDPANLKWNEVDVDVVIESTGLFLTKETAQKHIDAGAKKVI Dentine caries AVOGNOLLVNGKKIRLTOERDPANLKWNEVDVDVVIESTGLFLTKETAOKHIDAGAKKVI AVOGNOLLVNGKKIRLTOERDPANLKWNEVDVDVVIRSTGLFLTKETAOKHIDAGAHKVI Oropharyna AVOGNOLLVNGER FELTORE DPANLEWDEVGADVVLRATGI-FLTERTACKHI DAGAEHVI Cerebrospinal fluid2 AVQGNDLLVNGKKI/LTQERDPANLKWDEVGADVVLEATGLFLTEETAQKHIDAGAREVI Catheter AVOGNOLLVNGKKIHLTQERDPANLEWDEVGADVVLEATGLFLTKETAQKHIDAGARRVI Lung cystic fibrosis8 AUGGNDLLUNGER INLTGERDPANLEWDEVGADVVLEATGLELTRETAGENT DAGARRUT AVOCNOTATION OF THE TOP HOPANIEW DEVCADOULEARCH FLOREST THE TACKET DAGAPHUT Rectal\_swab1 AVOGNOLLVNGEKIRLTOERDPANLKWDEVCADVVLEATGLFLTKETAOKHIDAGARKVI Urine3 SVQGNDLLVNGKKIRLTQERDPANLKWDEVGADVVLEATGLFLTKETAQKHIDAGAKKVI Bloodl AVOGNOLLVNGKKIRLTQERDPANLKWDEVGADVVLEATGLFLTKETAQKHIDAGVKKVI AVOGNOLL VNGK E HELTOERDPANL KWDEVGADVVLRATGLELT KETAOKHI DAGAE KVI Lung cystic fibrosisC AVOGNOLLVNGK TRLTOERDPANLEWDEVCADUVLRATGLELTERTAGER I DAGAKEVT Decubitus ulcer AVQGNDLLVNGKRIWLTQERDPANLKWDEVGADVVLEATGLFLTKETAQKHIDAGARKVI Cerebrospinal\_fluid3 AVOGNOLLVNGKKIRLTOERDPANLKWDEVGADVVLEATGLFLTKETAOKHIDAGARKVI Lungi AVOGNOLLVNGKKIKLTOERDPANLKWDEVGADVVLEATGLFLTKETAOKHIDAGAKKVI AVOCADE LUNCHE DE TOPPODRANT EMPPUCADUM PARCET TERTACHET DACAPEUT Throat (pharynx) AVQGNDLLVNGKKIRLTQERDPANLKWDEVGADVVLEATGLFLTKETAQKHIDAGAKKVI 0457 AVQGNDLLVNGKKIRLTQERDPANLKWDEVGADVVLEATGLFLTKETAQKHIDAGAKKVI Ascites AVOGNOLLYMGKKIRLTOERDPANLKWDEVGADVVLEATGLFLTKETAOKHIDAGAKKVI AVOGNOLL VNGSET SETOESDPANL SWIEVGADVVLEATGLELTS ETAOX STDAGAS VVI AUGGNOLL WICKET HE TORK DRANT, WIDE VOAD VOLPATICE PETER TACKET DAGABLE VT. 125 Cerebrospinal\_fluidl AVOGNOLLVNGHEIRLTOEHDPANLEWDEVGADVVLEATGLFLTHETACKHIDAGAERVI 120 AVOGNOLLVNGKKIRLTOERDPANLKWDEVGADVVLEATGLFLTKETAOKRIDAGAKEVI 12 Liver AVQGNDLLVNG#KIHLTQEHDPANLKWDEVGADVVLEATGLFLT#ETAQKHIDAGAK#VI 120 Lung\_cystic\_fibrosisA AVOGNOLLVNGKKIRL/TORROPANLKWDEVGADVVLRATGLELTKRTAOKHIDAGAKKVI AVOGNOLLVNGKRIELTOERDPANLKWDEVGADVVLEATGLELTRETAOKHIDAGARRVI Oropharyngeal swab AVQGNDLLVNGKKIRLTQERDPANLKWDEVGADVVLEATGLFLTKETAQKHIDAGAKKVI Perineum AVOGNDLLVNGKKIRLTOERDPANLKWDEVGADVVLEATGLFLTKETAOKHIDAGAKKVI AVOGNOLLVNGKKIRLTOERDPANLKWDEVGADVVLEATGLFLTKETAOKHIDAGAKKVI Rectal swab2 AVOGNOLLYNGER I HLTOERDPANLKWDEVGADVVLEATGLELTKETAOKHIDAGAKKVI 12 Rectal swab3 AVOGNDLLVNG##IRLTOERDPANL#WDEVGADVVLEATGLFLT#ETAOKHIDAGA##VI 120 Sputum2 AVQGNDLLVNGKKIRLTQERDPANLKWDEVGADVVLEATGLFLTKETAQKHIDAGAKKVI Sputum3 AVOGNOLLVNGKKIRLTQERDPANLKWDEVGADVVLEATGLFLTKETAQKHIDAGAKKVI Thracheal aspirate AVOGNOLLVNGKKIRLTOERDPANLRWDEVGADVVLEATGLFLTNETAOKHIDAGAKKVI 120 Urine2 AVOGNOLLVNG##IRLTOERDPANL#WDEVGADVVLEATGLFLT#ETAO#HIDAGA##VI 120 Vascular ulcer AVQGNDLLVNGKKI#LTQE#DPANLKWDEVGADVVLEATGLFLTKETAQKHIDAGAK#VI 120 POS7 SVVDLTVELEKEATYAEICAEVKAOSEGALKGVLGYTEDKVVATDFRGETHTSVHDADAG 300 SVVDLTVELEKEATYAEICAEVKAOSEGALKGVLGYTEDH VVATDF HGETHTSVHOADAG Sputum1 SVVDLTVELEKEATYAETCAEVKAGSEGALKGILGYTEDKVVATDFRGETHTS Gut 2 SVVDLTVELEREATYAEICAEVKAQSEGALKGILGYTEDRVVATDFRGETHTSV Intestine SVVDLTVELEKEATYAEICAEVKAOSEGPLKGILGYTEDKVVATDFRGETCTS Dentine\_caries SVVDLTVELEREATYAETCAEVKAOSEGPLKGTLGYTEDEVVATDFRGETCTS Urinel SVVDLTVELEKEATYAETCAEVKAQSEGPLKGTLGYTEDKVVATDFRGETCTSV Oropharyny SVVDLTVELEKEATYAEICAEVKAQSEGPLKGILGYTEDKVVATDFRGETCTS Cerebrospinal fluid? SVVDLTVELEKEATYAETCAEVKAOSEGALKGILGYTEDKVVATDFRGETCTS Catheter SVVDLTVELEKEATYAFICAEVKAOSEGALKGILGYTEDKVVATDF#GETCTS Lung\_cystic\_fibrosisB SVVDLTVELEKEATYAEICAEVKAQSEGALKGILGYTEDKVVATDFRGETCTSV SVVDLTVELEREATYAEICAEVKAQSEGALKGILGYTEDKVVATDFRGETCTSV Rectal swab! SVVDLTVELEKEATYAETCAEVKAQSEGALKGILGYTEDKVVATDFRGETCTSV Urine3 SVVDLTVELEXEATYAEICAEVKAOSEGPLKGILGYTEDKVVATDFHGETCTSV Bloodi SVVDLTVELEXEATYAEICAEVKAQSEGPLKGILGYTEDKVVATDFKGETCTSV Mouth Lung\_cystic\_fibrosisC SVVDLTVELEKEATYAEICAEVRAQSEGPLKGILGYTEDKVVATDFKGETCTSVEHADAG SVVDLTVELBXEATYAEICAEVRAOSEGFLXGILGYTEDXVVATDFRGETCTSV Decubitus ulces Cerebrospinal\_fluid3 SVVDLTVELEKEATYAEICAEVEAOSEGPLKGILGYTEDKVVATDFRGETCTSVETADAG SVVOLTVELEKEATYAEICAEVKAQSEGPLKGILGYTEDKVVATDFRGETCTSVE Lungl SVVDLTVELEKEATYAKICAEVKAOSKGPLKGILGYTEDKVVATDFRGETCTS SVVDLTVELEKEATYAKICAEVKAQSEGPLKGILGYTEDKVVATDFRGETCTSV Throat (pharynx) SVVOLTVELEREATVARICATURAOSRGPLEGILGYPEDEUVATOPEGETCTSV 0457 SVVDLTVELEXEATYAEICAEVKAQSEGPLKGILGYTEDKVVATDFRGETCTSV Ascites SVVDLTVELEKEATYAETCAEVKAQSEGPLKGTLGYTEDKVVATDFRGETCTSV SVVDLTVELEKEATYAEICAEVKAQSEGPLKGILGYTEDKVVATDFKGETCTS Blood3 Cerebrospinal fluidl SUVDITURE REATVARICARUS AOSRGPIEGTI GUTEDRUVATOR RETCTSURDADAG SVVDLTVELEREATYAEICAEVKAQSEGPLKGILGYTEDKVVATDFRGETCTS SVVDLTVELE . EATYAE I CAEVRAQSEGPL KG I LGYTEDK VVATDF KGETCTS SVVDLTVELEKEATYABICAEVKAQSEGPLKGILGYTEDKVVATDFRGETCTS Lung3 Lung\_cystic\_fibrosisA SVVDLTVELEKEATYAETCAEVKAOSEGPLKGILGYTEDKVVATDFRGETCTS SVVOLTVELER EATYAE I CAEVKAQSEGPLKGILGYTEDKVVATDF KGETCTSV Oropharyngeal swab SVVDLTVELEXEATYAEICAEVKAQSEGPLRGILGYTEDRVVATDFRGETCTS SVVDLTVELEXEATVAETCAEVKAOSEGPLKGTLGYTEDKVVATDFRGETCTS Pug2 SVVDLTVELE "EATYAETCAEVKAOSEGPL "GTLGYTEDK VVATDF "GETCTS" Rectal swab2 SVVDLTVELEKEATYAEICAEVKAQSEGPLKGILGYTEDKVVATDFRGETCTSV Rectal swab3 SVVDLTVELEKEATYAETCAEVKAQSEGPLKGTLGYTEDKVVATDFKGETCTS SVVDLTVELEKEATYAEICAEVRAOSEGPLKGILGYTEDKVVATDFRGETCTSV Sputum3 SVVDLTVELE KEATYAETCAEVHAOSEGPLKGTLGYTEDH VVATDFRGETCTSVI Thracheal aspirate SVVDLTVELE \* EATYAEICAEVKAQSEGPL\*\*GILGYTED\*\*VVATDF\*\*GETCTSV Urine2 SVVOLTVELEKEATYARICAEVKAQSEGPLKGILGYTEDKVVATDFRGETCTSV Vascular ulcer SVVDLTVELEREATYAEICAEVRAQSEGPLKGILGYTEDKVVATDFRGETCTSVHCADAG 300 POS7

MSAPSKDDTPMFVFGVNDRTYAGQAIVSNASCTTNCLAPLAKVINDKWGIRRGLMTTVHA 180 MSAPSKDDTPMFVPGVNDKTYAGQAIVSNASCTTNCLAPLAKVINDKWGIRRGLMTTVHA 180 LSAPS/DDTPMFVFGVND%TYAGOAIVSNASCTTNCLAPLAKVINDKNGIKKGLMTTVHA 180 LSAPSKODTPMFVFGVNDKTVAGOATVSNASCTPNCLAPLAKVINDKWGIKEGLMTTVHA 180 MSAPSKODTPMFVYGVNDKTYAGQAIVSNASCTTNCLAPLAKVINDKWGIKKGLMTTVHA 180 MSAPSKDDTPMFVYGVNDRTYAGQAIVSNASCTINCLAPLAKVINDKWGIERGLMTTVHA 180 MSAPS & DDTPNEUVGVNDKTVAGOAIUSNASCTINCLAPLAEVINDKWGIERGLMTTUHA 180 MSAPSKDDTPMPVYGVNDSTVAGGATISNASCTTNCLABLAKUINDENGIKEGIMTTVHA 180 MSAPSEDDIFMFVFGVNDETYAGOALISNASCTINCLAPLAEVINDEWGIERGLMTTVHA 180 MSAPSKDDTPMFVFGVNDKTYAGQAIISNASCTINCLAPLAKVINDKWGIKKGLMTTVRA 180 MSAPSKDDTPMFVFGVNDKTYAGQAIISNASCTTNCLAPLAKVINDKWGIKKGLMTTVHA 180 MSAPS KODTPMFVFGVMDHTVAGGATISNASCTTNCLAPLAKVINDENGI KRGLNTTVHA 180 MSAPS EDITOME UPGVIDET VAGOALT SNASCTING LADLARVIND BUG FERGLATTURA 180 MSAPS KDDTPMFVYGVNDKTYAGQAIISNASCTTNCLAPLAKVINDKWGIKRGLMTTVHA 180 MSAPSKDDTPMFVYGVNDETYAGQAIISNASCTTNCLAPLAKVINDKWGIERGLMTTVHA 180 MSAPSKDDTPMFVFGVNDRTYAGQAIISNASCTTNCLAPLAKVINDKWGIKRGLMTTVHA 180 MSADCK DISTRIBUTED WITH A TRANSPORT AND A REVENUE WITH A TRACE WITH A MSAPSEDDTPMFVYGVNDKTYAGQATISNASCTTNCLAPLAKVINDKWGIKRGLMTTVHA 180 MSAPSKDDTPMFVYGVNDKTYAGQAIISNASCTTNCLAPLAKVINDKWGIKHGLMTTVHA 180 MSAPSKDDTPMFVYGVNDKTYAGQALISNASCTINGLAPLAKVINDKWGIKEGLMTTVRA 180 MSAPS FDDT PMP VYGVNDET VAGOATISNASCTINGLAPLARVIND RNG FREGINT TUBA IRO MSAPS EDDTPMEUVCVNDETVACOATISNASCTINCIAPLAVVINDENCIERCIMTTURA 18/ MSAPS KDDTPMFVYGVNDKTYAGOAIISNASCTTNCLAPLAKVINDKWGIKRGLMTTVHA 180 MSAPSKDDTPMFVYGVNDKTYAGOAIISNASCTTNCLAFLAKVINDKWGIKKGLMTTVHA 180 MSAPS NDDTPMFVYGVNDRTYAGQAIISNASCTINCLAPLARVINDKWGIRRGLMTTVHA 180 MSAPS KDDTPMFVYGVNDKTVAGOALISNASCTINCLAPLAKVINDKNGI KEGLMTTVHA 180 MSAPSHDDTPMFVYGVNDETVAGGATISNASCTTNCLAPLAEVINDEWGTERGLMTTVHA 180 MSAPSKDDTPMFVYGVNDKTYAGQAIISNASCTINCLAPLAKVINDKWGIKEGLMTTVHA 180 MSAPSKDDTPMFVYGVNDKTYAGQAIISNASCTTNCLAPLAKVINDKWGIKUGLMTTVHA 180 MSAPSY DDTPMPUVGUNDETVAGOAT I SNASCTTNCLAPLAKUINDENG I KRGI MITTURA 180 MSAPSKDDTPMFVYGVNDKTYAGOAIISWASCTTNCLAPLAKVINDKWGIKRGLMTTVHA 180 MSAPSKDDTPMFVYGVNDKTVAGOALISNASCTTNCLAPLAKVINDKHGIKEGLMTTVHA 180 MSAPSEDDTPMPVYGVNDETYAGQAIISNASCTTNCLAPLAEVINDEWGIERGLMTTVBA 180 MSAPS\*DDTPMFVYGVNDRTYAGQAIISNASCTINCLAPLAKVINDKWGIRRGLMTTVHA 180 MSAPSKDDTPMFVYGVNDKTYAGOATISNASCTTNCLAPLAKVINDKWGIKEGLHTTVHA 180 MSAPSEDDTPMFVYGVNDETYAGOAIISNASCTINCLAPLAEVINDRWGIERGLETTVHA 180 MSAPS/DDTPMFVYGVNDKTYAGQAIISNASCTINCLAPLAKVINDKWGIKKGLMTTVHA 180 MSAPSKDDTPMFVYGVNDKTYAGQAIISNASCTINCLAPLAKVINDKWGIKEGLMTTVHA 180 MSAPSKDDTPMFVYGVNDKTYAGOAIISNASCTTNCLAPLAKVINDKWGIKEGLMTTVHA 180 MSAPS FOOTPMEVYGVNDRTVAGGALISNASCTINGLAPLAKVINDRHGIERGLMTTVHA 180 MSAPSKDDTPMFVYGVNDKTYAGOALISNASCTTNCLAPLAKVINDKWGLERGLMTTVHA 180 TALDOTPVELUSWYDNEWCYSBECLEMARUVAAL IALDGTFVKLVSWYDNEWGYSNECLEMAK VVAAK 334 IALDGTFVKLVSWYDNEWGYSNKCLEMVKVVAA-

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IALDGTFVKLVSWYDNEWGYSNKCLEMVKVVAA-

TALBOTTUKLUTWYDNEWGYSNECTEMAKUVAAK

IALDGTFVELVTWYDNEWGYSNECLEMAEVVAAK

IALDGTFVELVTWYDNEWGYSNECLEMAE VVAAR

IALDGTFV/LVTWYDNEWGYSNECLEMAEVVAA/

TATOGTEVELYTHYDNERGYSHICTEMAKYTAAK

IALDGTEVELVTWYDNEWGYSHECLEMAEVIAAR

IALDOTFUCLUTWYDNEWGYSNECLEMAKUIAAK

IALDGTEVELVTWYDNEWGYSNECLEMAEVIAAE

IALDGTFV LVTWYDNEWGYSHICLEMAKVIAAK

TALDGTEVELVTWYDNEWGYSNECLEMAEVIAAK

TALDGTFVKLVTWYDNEWGYSNKCLEMAKVIAAK

IALDGTFVELVTWYDNEWGYSRKCLEMAKVIAAK

TAT DOTPUT UTWYDWEWGYSDECT PMAKUTARE

IALDCTEVELVTWYDNEWGYSBECLEMAEVIAAX

IALDGTFVKLVTHYDNEWGYSHECLEMAKVIAAX.

IALDGTEVELVTWYDNEWGYSNECLEMAEVIAAS

IALDGTPVKLVTWYDNEWGYSNECLEMAKVIAAK

TALDCTEVELVTWYDNEWGYSHECTEMAEVTAAR

IALDGTFV#LVTWYDNEWGYSNECLEMAEVIAA#

**FALDGTFVKLVTWYDNEWGYSNKCLEMAKVIAAK** 

IALDGTFVKLVTWYDNEWGYSNECLEMAEVIAAK

TALDCTEVELVTWYDNEWGYSNECLEMAEVIAAR

IALDGTFVKLVTWYDNEWGYSNECLEMAKVIAAK

IALDGTFVKLVTWYDNEWGYSNECLEMAKVIAAK

TALDGTFVELVTWYDNEWGYSNECLEMAEVTAAR

TALDGTFVKLVTWYDNEWGYSNKCLEMAKVTAAK

IALDGTFVKLVTWYDNEWGYSNECLEMAKVIAAK

IALDGTPVKLVTWYDNEWGYSNKCLEMAKVIAAK

TALDGTPVELVTWYDNEWGYSNECLEMAKVIAAK

**FALDGTFVELVTWYDNEWGYSRKCLEMAKVIAAK** 

IALDGTFVKLVTWYDNEWGYSNKCLEMAKVIAAK

IALDGTFVELVTWYDNEWGYSRECLEMAEVIAAK

TALDGTEVELVTWYDNEWGYSNECLEMAEVIAAT

TALDGTPVELVTWYDNEWGYSNECLEMAEVTAAR

IALDGTFVELVTWYDNEWGYSNECLEMAEVIAAF

TALDGTFVKLVTWYDNEWGYSNKCLEMAKVIAAK

IALDGTFVKLVTWYDNEWGYSHKCLEMAKVIAAK

## D

## Phosphoglycerate kinase

MSIVHHTDLDLSGKBVLIRQDLNVPIENGRITSEQHITASLPTLKRALEGAAVMVTSHL 50 VAScular ulcer MSIVFHTDLDLSGKRVLIRQDLNVPIENGRITSEQRITASLPTLKRALEGAAVMVTSHL 50 Urine3 Vascular ulcer Urine3 MSIVEMTDLDLSGKRVLIRODLNVPIENGRITSEORITASLPTLKRALHOGAAVMVTSHL 60 Urine2 Urine2 MSIVEMTDLDLSGERVLIEGDLNVPIENGRITSEGRITASLPTLKEALEGGAVMVTSHL 60 Urinel MSIVEMTDLDLSGERVLIEGDLNVPIENGRITSEGRITASLPTLEBALEGGAVMVTSHL 60 Throat(pharynx) Urinel Throat (pharynx) MSIVENTDLDLSGREVLIRQDLNVPIENGRITSEQRITASIPTIKEALEQGAAVVISHL 60 Throat(pharynx)
MSIVENTDLDLSGREVLIRQDLNVPIENGRITSEQRITASIPTIKEALEQGAAVVISHL 60 Sputum3 Thracheal aspirate Sputum3 MSIVEMTDLDLSGKRVLIRODLNVPIENGRITSEQRITASLPTLKRALEQGAAVMVTSHL 60 Sputum2 SputumZ MSIVEMTDLDLSGERVLIRODLNVPIENGRITSEQRITASLPTLERALEGGAAVMVTSHL 60 Rectal swab2 Rectal swabZ MSIVEMIDLDLSGERVLIRODLNVPIENGRITSEORITASLPTLERALEGGAAVMVTSHL 60 Rectal swabl Rectal swabl Pus2 MSIVEMTDLDLSGERVLIRODLNVPIENGRITSEORITASLPTLERALEGGAAVMVTSHL 60 Pus2 --- MVTSHI 6 Pust Pusl MSIVEMTDLDLSGKEVLIRODLWVPIENGRITSEGRITASLPTLKRALEGGAAVMVTSHL 50 Perineum Perineum Oropharynx MSIVRMTDLDLSGERVLIRQDLNVPIENGRITSEQHITASLPTLERALEQGAAVMVTSHL 50 Oropharynx Oropharyngeal swab MSIVEMTDLDLSGKEVLIRODLNVPIENGRITSEGRITASLPTLKRALEGGAAVMVTSHL 50 Oropharyngeal swab MSIVRMTDLDLSGKRVLIRQDLHVPIENGRITSEQRITASLPTLKRALEGGAAVMVTSHL 60 Mouth Lung cystic fibrosisC MSIVEMTDLDLSGKRVLIRODLNVPIENGRITSEQRITASLPTLKRALEGGAAVHVTSHL 60 Lung cystic fibrosisc MSIVRMTDLDLSGKRVLIRQDLNVPIENGRITSEQRITASLPTLKRALEGGAAVMVTSHL 60 Lung cystic fibrosisB Lung cystic fibrosisB MSIVEMTDLDLSGKEVLIRODLWVPIENGRITSEORITASLPTLKRALEGGAAVMVTSHL 60 Lung3 Lung3 MSIVRMTDLDLSGRRVLIRODLNVPIENGRITSEQRITASLPTLRRALEGGAVMVTSHL 60 Lung2 MSIVRMTDLDLSGRRVLIRODLNVPIENGRITSEQRITASLPTLRRALEGGAVMVTSHL 50 Lung1 Lung2 Lung1 MSIVEMTDLDLSGKRVLIRDDLNVFIERGRITSEDRITASLEPTLERALEGGAMVAVISHL 60 Liver MSIVEMTDLDLSGRRVLIRQDLNVFIERGRITSEDRITASLEPTLERALEGGAMVAVISHL 50 Eye Liver Dentine caries MSIVEMTDLDLSGKRVLIRODLNVPIENGRITSEORITASLPTLKRALE GAAVMVTSHL 60 Dentine caries Cerebrospinal fluid3 MSIVEMTDLDLSGKEVLIRODLNVPIENGHITSEORITASLPTLKRALEGGAVMVTSHL 60 Cerebrospinal fluid3 MSIVEMTDLDLSGKEVLIRODLNVPIENGHITSEORITASLPTLERALEGSAVMVTSHL 50 Cerebrospinel fluidl Cerebrospinal fluidl MSIVEMTDLDLSGKEVLIRODLNVPIENGRITSEQRITASLPTLKEALEGGAAVMVTSHL 60 Catheter Catheter MSIVEMTDLDLSGKEVLIRODLNVPIENGHITSEORITASLPTLKEALECGAAVMVTSHL 80 Blood3 Blood3 MSIVHMTDLDLSGRRVLIRODLNVPIENGRITSEQRITASLPTLKRALECGAVMVTSHL 60 Blood2 MSIVHMTDLDLSGRRVLIRODLNVPIENGRITSEQRITASLPTLKRALECGAVMVTSHL 60 Blood1 Blood? Bloods MSIVEMTDLDLSGKRVLIRQDLNVPIENGRITSEQKITASLPTLERALEGGAAVMVTSHL 60 Acites Acites MSIVRMTDLDLSGERVLIRQDLNVPIENGRITSEQRITASLPTLERALEGGAAVMVTSHL 50 D457 D457 FOS8 MSIVEMTDLDLSGERVLIRODLNVPIENGRITSEQRITASLPTLERALE ----- 30 POS8 Cerebrospinal fluid2 MSIVEMTDLDLSGKRVLIRQDLNVPIENGRITSEQRITASLPTLKRALEQGAAVMVTSHL 60 Cerebrospinal fluid2 Decubitus ulcer MSIVEMTDLDLSGKRVLIRQDLNVPIENGRITSEQRITASLPTLKRALEGGAAVMVTSHL 60 Decubitus ulcer MSIVENTIDLISGERVLIRODLNYPIENGETTSEOSITASLPTLERALDGAAVMVTSHL 60 Lung\_cystic\_fibrosisA
MSIVENTIDLISGERVLIRODLNYPIENGETTSEOSITASLPTLERALDGAAVMVTSHL 60 Lung\_cystic\_fibrosisA Lung cystic fibrosisA Rectal swab3 MSIVENTOLDLSGKRVLIRODLNVPIENGRITSEQRISASLPTLKLALE: GAAVMVTSHL 50 Sputuml Sputum1 MSIVHMTDLDLSGKRVLIRQDLNVPIDNGQITSEQRITASLPTLKLALEXGAAVMVTSHL 50 Intestine Intestine MSIVEMTDLDLSGKEVLIEQDLNVPIENGEITSEQRISASLPTLELALE GAAVMVTSHL 60 Gut1 Gut1 Gut2 MSIVRMTDLDLSGKRVLIRQDLNVPIDNGQITSEQRITASLPTLKLALEKGAAVMVTSHL #0 Gut2 DAEALSRKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLIMAELDALAQALDA 180 Vascular ulcer Vascular\_ulcer Urine3 DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPGLMAELDALAQALDA 180 Urine3 Urine2 DDEALSEKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Urine2 Urinel DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Urinel Throat (pharynx) DDEALSKKYAALCDVFVMDAFCTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Throat(pharynx) DDEALSRKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Thracheal aspirate Thracheal\_aspirate DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Sputum3 Sputum3 DDEALSRKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Sputum2 Sputum2 DDEALSKKYAALCDVFVMDAFGTAHRAGASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Rectal swab2 Rectal swab2 Rectal swabl DDEALSEKYAALCDVFVMDAPGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Rectal swabl DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Pus2 Pus2 DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 126 Pusl Pus1 DDBALSKKYAALCDVFVMDAPGTAHRAQASTHGVIRPAPVAAGGPLLMAELDALAQALDA 180 Perineum Perineum DDEALSKKYAALCDVFVMDAFGTAHRAOASTHGVIRFAPVAAGGPLLMAELDALAOALDA 180 Oropharvnx Oropharynx Oropharyngeal swab DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIRPAPVAAGGPLLMAELDALAQALDA 180 Oropharyngeal swab DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Mouth Mouth Lung\_cystic\_fibrosisC DDEALSKKYAALCDVLVMDAFGTAHRAQASTHGVIKFAPVAAGGPLLMAELDALAQALDA 180 Lung cystic fibrosisC DDEALSKYYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Lung cystic fibrosisB Lung cystic fibrosisB Lung3 DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Lung3 DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIRFAFVAAGGPLLMAELDALAQALDA 180 Lung2 Lung2 Lungl DDBALSKKYAALCDVPVHDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Lung1 DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Liver Liver DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Eye DDEALSKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Dentine caries Dentine caries DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Cerebrospinal fluid3 Cerebrospinal\_fluid3 DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Cerebrospinal\_fluid1 Cerebrospinal\_fluidl DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIKPAPVAAGGPLLMAELDALAQALDA 180 Catheter Catheter Blood3 DDEVLSKKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Blood3 Blood2 DDEALSEXYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Blood2 DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAKALDA 180 Blood1 Blood1 DDEALSHKYAALCDVEVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Acites Acites D457 DDEALSKKYAALCDVFVMDAFGTAHRAQASTHGVIRFAFVAAGGFLLMAELDALAQALDA 180 p457 FOS8 -- 50 FOSS DDEALSRKYAALCDVFVMDAPGTAHRAQASTHGVIRPAPVAAGGPLLMAELDALAQALDA 180 Cerebrospinal fluid2 Cerebrospinal\_fluid2 DDEALSKKYAALCDVFVMDAPGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Decubitus ulcer Decubitus\_ulcer DDEALSRKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Lung cystic fibrosisA Lung cystic fibrosisA DDEALSKYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAQALDA 180 Rectal swab3 Rectal swab3 Sputuml DDEALSREYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALARALLA 180 Sputuml Intestine DDEALARRYAALCDVFVMDAFGTAHRAQASTHGVIRFAPVAAGGPLLMAELDALAKALLA 180 Intestine DDEALSNKYAALCDVFVMDAFGTAHRAGASTHGVIRPAPVAAGGPLLMAELDALAKALLA 180 Gut1 Gutl Gut2 DDEALAKKYAALCDVFVMDAFGTAHKAQASTHGVIRFAPVAAGGPLLMAELDALAKALLA 180 Gut2

GRPKEGVWSEADSLAPVAQRLSELLGREVPLVRDWVDGVDVQPGQLVLLENCRMNVGEGK 120 GRPKEGVWSEADSLAPVAORLSELLGRDVPLVRDWVDGVDVOPGOLVLLENCRMNVGEGK 120 GRPKEGVWSEADSLAPVAORLSELLGREVPLVRDWVDGVEVOPGOLVLLENCRMNVGEGK 120 GEP FEGUNS FADST APVADELS FLIGHEVELVE DWYDGVDVOPGOLVLI ENCHMILGEGE 120 GRPKEGVWSEADSLAPVAORLSELLGREVPLVRDWVDGVEVOPGOLVLLENCRMNVGEGE 120 GRPKEGVWSRADSLAPVADRLSELLGHEVPLVRDWVDGVEVOPGOLVLI.RNCRMNVGRGK 120 GRPKEGVWSEADSLAPVAORLSELLGREVPLVRDWVDGVEVOPGOLVLLENCRMNVGEGK 120 GRPREGVWSEADSLAPVAQRLSELLGREVPLVRDWVDGVEVQPGQLVLLENCRMNVGEGR 120 GRPKEGVWSEAESLAPVAORLSELLGREVPLVRDWVDGVDVQPGQLVLLENCRMNVGEGK 120 GRPKEGVWSEADSLAPVAOKLSELLGREVPLVRDWVDGVDVOPGOLVLLENCRMNVGEGK 120 GRPKEGVWSEADSLAPVAORLSELLGREVPLVRDWVDGVEVOPGOLVLLENCRMNVGEGK 120 GRPKEGVWSEADSLAPVAORLSELLGRDVPLVRDWVDGVDVOPGOLVLLENCRMNVGEGK 66 GEPERGVWSEADSLAPVAORLSELIGHEVPLVRDWVDGVEVOPGOLVLLENCRMNVGEGE 120 GRPKEGVWSEAESLAPVAQRLSELLGREVPLVRDWVDGVDVQPGQLVLLENCRMNVGEGK 120 GRPKEGVWSEADSLAPVAQRLSELLGREVPLVRDWVDGVEVQPGQLVLLENCRMNVGEGK 120 GRPKEGVWSEADSLAPVAORLSELLGREVPLVRDWVDGVEVOPGOLVLLENCRMNVGEGK 120 GRPKEGVWSEADSLAPVAORLSALLGREVPLVRDWVDGVDVQPGQLVLLENCRMNVGEGK 120 GRPKEGVWSEADSLAPVAORLSELLGRDVPLVRDWVDGVDVOPGOLVLLENGRMNVGEGK 120 GRPKEGVWSEADSLAPVAORLSELLGREVPLVRDWVDGVEVOPGOLVLLENCRMNVGEGK 120 GRPREGVWSEADSLAPVAQRLSELIGHEVPLVRDWVDGVEVQPGQLVLLENCRMNVGEGK 120 GRPKEGVWSEADSLAPVAQRLSELLGREVPLVRDWVDGVEVQPGQLVLLENCRMNVGEGK 120 GRPKEGVWTEADSLAPVAARLSELLGKEVPLVRDWIDGVDVQPGQLVLLENCRMNVGEGK 170 GRPKEGVWSEADSLAPVAORLSELLGREVPLVRDWVDGVEVOPGOLVLLENCRMNVGEGR 120 GRPKEGVWSEADSLAPVAORLSELLGREVPLVRDWVDGVDVOPGOLALLENCRMNVGEGR 120 GRPKEGVWSEADSLAPVAORLSELLGHEVPLVRDWVDGVEVOPGOLVLLENCRMNVGEGK 120 GRPKEGVWSEADSLAPVAORLSELLGREVPLVRDWVDGVDVOPGOLVLLENCRMNVGEGE 120 GRPKEGVWSEADSLAPVAORLSELLGRDVPLVRDWVDGVDVOPGOLVLLENCRMNVGEGK 120 GRPKEGVWSEADSLAPVAORLSELLGREVFLVRDWVDGVEVOPGOLVLLENCRMNVGEGK 120 GRPKEGVWSEAESLAPVAQRLSELLGREVPLVRDWVDGVDVQPGQLVLLENCHMNVGEGK 120 GRPKEGVWSEADSLAPVAARLSELLGREVPLVRDWVDGVDVQPGQLVLLENCRMNVGEGK 120 GRPKEGVWSEADSLAPVAOHLSELLGREVPLVRDWVDGVEVOPGOLVLLENCRMNVGEGE 120 GRPREGVWSEADSLAPVAQRLSELLGREVPLVRDWVDGVDVQPGQLVLLENCRMNVGEGK 120 GRPKEGVWSEADSLAPVAORLSELLGREVPLVRDWVDGVDVOPGOLVLLENCRMNVGEGK 170 GRPKEGVWSEADSLAPVAORLSELLGREVPLVRDWVDGVDVOPGOLVLLENCHMNVGEGK 120 GRPREGVWSEADSLAPVAORLSELLGREVPLVRDWVDGVDVOPGOLVLLENCRMNVGEGR 120 GRPKEGVWSEADSLAPVAQRLSELLGREVPLVRDWVDGVDVQPGQLVLLENCRMNVGEGK 120 GRPTEGVWSDADSLAPVALRLSOLLGREVPLVRDWVDGVDVAPGSIVLLENCRMNVGEGK 120 GRPHEGVWSEAESLAPVALRISQLIGVEVPLVRDWVDGVQVAPGSIVLLENCRMNVGEGR 120 GRPTEGVWSDADSLAPVALRLSQLLGREVPLVRDWVDGVDVAPGSIVLLENCRMNVGEGK 120 GRPKEGVWSEAESLAPVALRLSOLLGVEVPLVRDWVDGVOVAPGSIVLLENCRMNVGEGK 120 PAKPLLAIVAGSKVSTKLELLANLVGKVDOLIVGGGIANTFIAAAGYKVGKSLYEPDLLD 240 PARPLLAIVAGSRVSTRLELLANLVGKVDQLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 240 PAKPLLATVAGSKVSTKLELLANLVGKVDQLIVGGGTANTFIAAAGYNVGKSLYEPDLLD 240 PARPLLAIVAGSKVSTKLELLANLVGKVDOLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 240 PARPLLATVAGSEVSTELELLANLVGEVDOLIVGGGIANTFIAAAGYNVGESLYEPDLLD 240 PAKPLLAIVAGSKVSTKLELLANLVGKVDQLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 240 PARPLLATVAGSEVSTKLELLANLVGEVDQLTVGGGTANTFIAAAGYNVGESLYEPDLLD 240 PARPLLATVAGSKVSTKLELLANLVGKVDOLTVGGGTANTFTAAAGYNVGKSLYRPDLLD 240 PARPLLAIVAGSKVSTKLELLANLVGKVDQLTVGGGIANTFIAAAGYKVGKSLYEPDLLD 240 PARPLLAIVAGSKVSTKLELLANLVGKVDQLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 240 PARPLLAIVAGSKVSTKLELLANLVGKVDQLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 240 PAKPLLAIVAGSKVSTKLELLANLVGKVDQLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 186 PAKPLLAIVAGSKVSTKLELLANLVGKVDOLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 240 PARPLLAIVAGSKVSTKLELLANLVGKVDQLIVGGGIANTFIAAAGYNVGKSLYEPDILD 240 PARPLLATVAGSKYSTKLELLANLVGKVDQLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 240 PARPLLAIVAGSKYSTKLELLANLVGKVDQLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 240 PAKPELAIVAGSKVSTKLEELANLVGKVDQLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 240 PAKPLLATVAGSKVSTKLELLANLVGKVDQLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 240 PARPLLAIVAGSKVSTKLELLANLVGKVDQLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 240 PAKPLLATVAGSKYSTKLELLANLVGKVDQLTVGGGTANTFIAAAGYNVGKSLYEPDLLD 240 PARPLLATVAGSKVSTKLELLANLVGKVDOLTVGGGTANTFIAAAGYNVGKSLYEPDLLD 240. PAKPLLAIVAGSEVSTKLELLANLVGKVDOLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 240 PARPLLATVAGSRVSTKLELLANLVGKVDOLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 240 PARPLLATVAGSKYSTKLELLANLVGKVDQLIVGGGIANTFIAAAGYNVGRSLYEPDLLD 240 PARPLLATVAGSKVSTKLELLANLVGKVDQLTVGGGTANTFIAAAGYNVGKSLYEPDLLD 240 PARPLLAIVAGSKVSTKLELLANLVGKVDQLIVGGGTANTFIAAAGYNVGKSLYEPDLLG 240 PARPLLAIVAGSKVSTKLELLANLVGKVDQLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 240 PARPLLATVAGSRVSTKLELLANLVGKVDQLIVGGGIANTPIAAAGYNVGKSLYEPDLLD 240 PARPLLATVAGSKVSTKLELLANLVGKVDOLTVGGGTANTFTAAAGYKVGKSLYEPDLLD 240 PAKPLLATVAGSKVSTKLELLANLVGKVDOLIVGGGIANTFIAAAGYNVGKSLYEPDLLD 240 PARPLLATVAGSKVSTKLELLANLVGKVDQLTVGGGTANTFTAAAGYNVGKSLYEPDLLD 240 PARPLLAIVAGSKVSTKLELLANLVGKVDQLIVGGGTANTFIAAAGYKVGKSLYEPDLLD 240 PARPLLATVAGSKVSTKLELLANLVGKVDQLIVGGGIANTFIAAAGYKVGKSLYEPDLLD 240 PAKPLLATVAGSKVSTKLELLANLVGKVDQLIVGGGIANTFIAAAGYKVGKSLYEPDLLD 240 PAKPLLATVAGSKVSTKLELLANLVGKVDQLTVGGGIANTFIAAAGYKVGKSLYEPDLLD 240 PARPLLATVAGSKVSTKLELLANLVGKVDQLIVGGGIANTFIAAAGYKVGKSLYEPDLLD 240 PAQPLIAIVAGSKVSTKLELLANLVGKVDQLIVGGGIANTFIAAAGHAVGKSLYEPDLLD 240 PAOPLLAIVAGSKVSTKLELLSSLVGKVDQLIVGGGIANTFIAAAGHSVGKSLYEPDLLD 240 PAQPLLAIVAGSKVSTKLELLANLVGKVDQLIVGGGIANTFIAAAGHAVGKSLYEPDLLD 240 PAOPLIATVAGSKYSTKIELLSSLYGKYDOLTVGGGIANTFTAAAGHSVGKSLYEPDLLD 240

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Vascular ulcer
                           TAKKIVADAKANGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGPOTAAQYA 300 Vascular_ulcer
                           TAKKIVADAKARGADIPLPVDVVTAKOFLPDAAAEVKAVDAVAEDDLILDIGPOTAAOVA 300 Urine3
Urine3
                           TAKKIVADAKAHGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGPOTAAOYA 300 Urine2
Urine2
Urinel
                           TAKKIYADAKARGADIPLPVDVVTAKOFMPDALAEVKAVDAVAEDDLILDIGPOTAAOYA 300 Urinel
                           TAKKIVADAKARGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGPOTAACVA 300 Throat(pharynx)
Throat (pharynx)
                           TAKKIVADAKARGADIPLPVDVVTAKQFMPDAVAEVKAVDAVAEDDLILDIGPQTAAQYA 300 Thracheal aspirate
Thracheal aspirate
Sputum3
                           TAKKIVADAKAHGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGPOTAAGYA 300 Sputum3
Sputum2
                           TARKIVADAKARGADIPLPVDVVTAROFMPDAVAEVRAVDAVAEDDLILDIGPOTAAQYA 300 Sputum2
Rectal_swab2
                           TAKKIVADAKAHGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGPOTAAGYA 300 Rectal swab2
Rectal swabl
                           TAKKIVADAKARGADIPLPVDVVTAKOFLPDAAAEVKAVDAVAEDDLILDIGPOTAAQYA 300 Rectal_swabl
                           TAKKIVADAKARGADIPLPVDVVTAKOFNPDAVAEVKAVDAVAEDDLILDIGPOTAAGYA 300 Pus2
Pus2
                           TAKKIVADAKARGADIPLPVDVVTAKOFLPDAAAEVKAVDAVAEDDLILDIGPOTAAOVA 246 Pusl
Pusl
Perineum
                           TAKRIVADAKAHGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGFOTAAOYA 300 Perineum
Oropharynx
                           TAKKIVADAKARGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGPOTAAOYA 300 Oropharynx
Oropharyngeal_swab
                           TAKKIVADAKANGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGPOTAAQYA 300 Oropharyngeal swab
                           TAKKIVADAKARGADIPLPVDVVTAROFMPDAVAEVKAVDAVAEDDLILDIGPOTAAQYA 300 Mouth
Lung cystic fibrosisC
                           TAKKIVADAKARGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGFOTAAOYA 300 Lung cystic fibrosisC
                           TAKKIVADAKARGADIPLPVDVVTAKQFLPDAAAEVKAVDAVAEDDLILDIGPQTAAQYA 300 Lung cystic fibrosisB
Lung cystic fibrosisB
Lung3
                           TAKETVADAKARGADIPLPUDVUTAKOEMPDAVAEVKAVDAVAEDDI.ILDIGPOTAAOVA 300 Lung3
                           TARRIVADAKARGADIPLPVDVVTAKQFMPDAVAEVKAVDAVAEDDLILDIGPOTAACYA 300 Lung2
Lung2
                           TAKKIVADAKARGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGPOTAAQYA 300 Lungl
Lungl
Liver
                           TAKKIVADAKARGADIPLPVDVVTAKOFLPDAVAEVKAVDAVAEDDLILDIGPOTAAOYA 300 Liver
                           TAKKIVADAKANGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGPOTAAOVA 300 Eye
Eve
Dentine caries
                           TAKKIVADAKARGADIPLPVDVVTARQFMPDAVAEVKAVDAVAEDDLILDIGPQTAAQYA 300 Dentine caries
Cerebrospinal fluid3
                           TAKEIVADAKARGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGPOTAAOYA 300 Cerebrospinal fluid3
                           TAKKIVADAKARGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGPOTAAQYA 300 Cerebrospinal fluidl
Cerebrospinal fluid1
Catheter
                           TAKKIVADAKAHGADIPLPVDVVTAKOFLPDAAAEVKAVDAVAEDDLILDIGPOTAAOVA 300 Catheter
Blood3
                           TARKIVADAKARGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGPOTAAOVA 300 Blood3
Blood2
                           TAKKIVADAKAHGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGPOTAAOYA 300 Blood2
                           TAKKIVADAKARGADIPLPVDVVTAKQFLPDAVAEVKAVDAVAEDDLILDIGPQTAAQYA 300 Bloodl
Blood1
Acites
                           TAKKIVADAKARGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGFOTAAQYA 300 Acites
                           TAKRIVADAKARGADIPLPVDVVTAKQFMPDAVAEVKAVDAVAEDDLILDIGPQTAAQYA 300 D457
D457
FOSS
Cerebrospinal fluid2
                           TARRIVADAKARGADIPLPVDVVTAROFMPDAVAEVKAVDAVAEDDLILDIGPOTAAOYA 300 Cerebrospinal fluid2
Decubitus ulcer
                           TAKKIVADAKANGADIPLPVDVVTAKQFMPDAVAEVKAVDAVAEDDLILDIGPQTAAQYA 300 Decubitus ulcer
Lung_cystic_fibrosisA
                           TAKKIVADAKARGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGPOTAAQYA 300 Lung cystic fibrosisA
Rectal swab3
                           TAKKIVADAKANGADIPLPVDVVTAKOFMPDAVAEVKAVDAVAEDDLILDIGPQTAAQYA 300 Rectal swab3
                           TARRIVADAKARGAEIPLPTDVVVAKOFLPDAEATVKAVTDVAKDDLILDIGPDTAOHYA 300 Sputum1
Sputum1
                           TARRIVADARARGADIPLPTDVVVAROFLPDARATVRAVADVARDDLILDIGPDTAOHYA 300 Intestine
Intestine
                           TARRIVADAKANGAEIPLPTDVVVAKOFLPDAEATVXAVTDVAEDDLILDIGPDTAOHYA 300 Gut1
Gut 1
Gut 2
                           TAKKIVADAKAHGADIPLPTDVVVAKOFLPDAEATVKAVADVAEDDLILDIGPDTAOHYA 300 Gut2
Vascular_ulcer
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               391
Urine3
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               391
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               391
Urine2
                           VSYISTGGGAFLEFLEGRTLPAVAALDARGA
                                                               391
Urinel
Throat (pharynx)
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               191
Thracheal aspirate
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               191
Sputum3
                           VSYISTGGGAFLEFLEGETLPAVAALDARGA
                                                               391
Sputum2
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               391
                           VSYISTGGGAFLEFLEGHTLPAVAALDARGA
Rectal swab2
                                                               391
Rectal_swab1
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               391
Pus2
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                           VSVISTGGGAFLEFLE---
Pugl
Perineum
                           VSYISTGGGAFLEFLEGETLPAVAALDARGA
                                                               391
Oropharynx
                           VSYISTGGGAFLEFLEGKTLPAVAALDAHGA
                                                               391
Oropharyngeal swab
                           VSYISTGGGAFLEFLEGETLPAVAALDARGA
                                                               391
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               391
Lung cystic fibrosisC
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               391
Lung cystic fibrosisB
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                                391
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               391
Lung3
Luna2
                           VSYISTGGGAFLEFLEGETLPAVAALDARGA
                                                               391
Lungl
                           VSYISTGGGAFLEFLEGETLPAVAALDARGA
                                                               391
Liver
                           VSYISTGGGAFLEFLEGHTLPAVAALDARGA
                                                               391
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               391
Dentine caries
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                                391
Cerebrospinal fluid3
                           VSYISTGGGAFLEFLEGHTLPAVAALDARGA
                                                               391
Cerebrospinal fluidl
                           VSYISTGGGAFLEPLEGKTLPAVAALDARGA
                                                               391
                           VSYISTGGGAFLEFLEGETLPAVAALDARGA
Catheter
                                                               391
Blood3
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               391
Blood2
                           VSYISTGGGAPLEFLEGNTLPAVAALDARGA
Blood1
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               391
Acites
                           VSYISTGGGAPLEFLEGETLPAVAALDARGA
                                                               391
D457
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               391
                                                               50
FOS8
Cerebrospinal_fluid2
                           VSVISTGGGAFLEFLEGETLPAVAALDARGA
                                                               391
Decubitus ulcer
                           VSVISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               391
Lung cystic fibrosisA
                           VSYISTGGGAFLEFLEGKTLPAVAALDARGA
                                                               391
Rectal swab3
                           VSYISTGGGAFLEFLEGETLPAVAALDARGA
                                                               391
Sputum1
                           VSYISTGGGAFLEFLEGKTLPAVAALEARGO
                                                                391
Intestine
                           VSVISTGGGAFLEPLEGKTLPAVAALEARGS
                                                               301
                           VSYISTGGGAFLEFLEGKTLPAVAALEARGQ
                                                               391
Gut1
                           VSYISTGGGAFLEFLEGKTLPAVAALEARGS
Gut2
                                                               391
```

50 FOS8

OLIGRAGTVVWNGPVGVFEFEAFSKGTEALARAIASSPAFSIAGGGDTLAAVDKFD1AGO 360 OLIEKAGTYVWNGPYGYFEFESFSKGTEALARATASSKAFSTAGGGDTLAAVDKFDIAGD 350 OLIDEAGTVUNGPYGVERPRAFSKGTPALARATASSKAPSTAGGGDTLAAVDKEDIAGO 360 OLIGKAGTVVWNGPVGVFEFEAFSKGTEALARAIASSPAFSIAGGGDTLAAVDKFDIAQO 360 QLIERAGTVVWNGPVGVFEFBAFSKGTBALARAIASSKAFSIAGGGDTLAAVDKFD1AQQ 350 OLIEKAGTVVWNGPVGVFEFEAFSKGTEALARAIASSRAFSIAGGGDTLAAVDKFDIAGO 360 OT IDEACTIVENCE PROPERTY OF A CASE AND TAKE OF THE ANALYSIS AND TAKE OF OLIDRAGTUUWNGPUGUFEFBAFSKGTEALARATASSKAFSTAGGGDTLAAVDKFDIAGO 350 OLIGKAGTVVNNGPVGVFEFEAFSKGTEALARAIASSPAFSIAGGGDTLAAVDKFDIAGO 360 OLIENAGTVVWNGPVGVFEFEAFSKGTEALARAIASSKAFSIAGGGDTLAAVDKFDIAKD 360 OLIDKAGTVVWNGPVGVFEFEAFSKGTEALARAIASSRAFSIAGGGDTLAAVDKFDIAQO 360 OLIEKAGTVVWNGPVGVFEFESFSKGTEALARAIASSKAFSIAGGGDTLAAVDKFDIAGD 306 OLIDEAGTVVWNGPVGVFEFEAFSEGTEALARAIASSKAFSIAGGGDTLAAVDKFDIAGO 350 OLIDEAGTVVWNGPVGVFEFEAFSEGTEALARATASSPAFSTAGGGDTLAAVDEFDTAGO 360 OLIDEACTUUMIGPUGUEERAFSUGTEATARATASSKAPSTAGGGDTLAAUDUEDIAGO 360 QLIDKAGTVVWNGPVGVFEFEAFSKGTEALARAIASSKAFSIAGGGDTLAAVDKFDIAQQ 360 OLIDKAGTVVWNGPVGVFEFDAFSKGTEALARAIAGSKAFSIAGGGDTLAAVDKFDIAGO 368 QLIEKAGTVVWNGPVGVFEFESFSKGTEALARAIASSKAFSIAGGGDTLAAVDKFDIAGD 360 QLIERAGTVVWNGPVGVFEFEAFSKGTEALARAIASSKAFSIAGGGDTLAAVDKFDIAQQ 360 OLIEKAGTUVWNGPVGVFEFEAFSKGTEALARATASSKAFSLAGGGDTLAAVDKFDIAOO 360 OLIFEACTVVWNCPVCVFEPEAPSECTEALARATASSEAPSTAGGCDTLAAVDEPDIAGO 350 OLIERAGTVVWNGPVDVFEPBAFSKGTEALARATASSPAFSTAGGGDTLAAVDKFDIAKD 160 OLIEKAGTVVWNGPVGVFEFEAFSKGTEALARAIASSKAFSIAGGGDTLAAVDKFDIAGO 360 OLIGKAGTVVWNGPVGVFEFEAFSKGTEALARAIASSPAFSIAGGGDTLAAVDKFDIAOO 360 QLIEKAGTVVWNGPVGVFEFEAFSKGTEALARAIASSKAFSIAGGGDTLAAVDKFDIAQQ 360 OLIEKAGTVVWNGPVGVFEFEAFSKGTEALARAIASSPAFSIAGGGDTLAAVDKFDIAKD 360 OLIFEACTVVWNCPVCVFFPRSFSKCTFALARATASSKAPSTAGGGDTLAAVDKFDTAGD 350 GLIDKAGTVVWNGPVGVFEFBAFSKGTEALARATASSRAFSTAGGGDTLAAVDKFDIAOO 350 OLIGEAGTVVWNGPVGVFFFEAFSEGTEALARAIASSPAPSTAGGGDTLAAVDEFDIAGO 360 QLIEKAGTYVWNGPYGYFEFEAFSKGTEALARAIASSKAFSIAGGGDTLAAVDKFDIAGD 160 QLIERAGTVVWNGPVGVFEFEAFSKGTEALARAIASSKAFSIAGGGDTLAAVDKFD1AQQ 360 OLIGKAGTVVWNGPVGVFEFEAFSKGTEALARAIASSPAFSIAGGGDTLAAVDKFDIAGO 360 QLIGKAGTVVWNGPVGVFEFEAFSKGTEALARAIASSPAFSIAGGGDTLAAVDKFDIAGQ 360 QLIGKAGTVVWNGPVGVFEFEAFSKGTEALARAIASSPAFSIAGGGDTLAAVDKFDIAGQ 360 QLIGKAGTVVWNGPVGVFEFEAFSKGTEALARAIASSPAFSIAGGGDTLAAVDKFDIAGQ 360 QLIGKAGTVVWNGPVGVFEFEAFSKGTEALARAIASSPAFSIAGGGDTLAAVDKFDIAGQ 360 GLIAKAGTVVWNGPVGVFEFEAFSHGTOALAOAIAASSAFSIAGGGDTLAAVDKYDIADO 360 GLIAKAGTVVWNGPVGVFEFEAFSHGTEALARAIAASPAFSIAGGGDTLAAVDKYDIAGE 350 GLIAFAGTVVWNGPVGVFEFEAFSHGTQALAQAIAASSAFSIAGGGDTLAAVDKYDIADQ 360

GLIAKAGTVVWNGPVGVFEFEAFSHGTEALAHAIAASPAFSIAGGGDTLAAVDKYDIAGE 360