SRCTHLENRDFVTGTQGTTRVTLVLELGGCVTITAEGKPS TKCTHLENRDFVTGVQGTTRVSLVLELGGCVTITAVDKPS NCLGMSNRDFLEGVSGATWVDIVKEGDSCI TIMSKDKPT NCLGMSNRDFI EGASGATWVDLVLEGDSCVTIMAKDRPT MSNRDFI E GVS GATWVDIVLEGDSCVTMMAKDKPT
 SRCVHLGNRDFVTGTQGTTAVTLVLEGGGCVTLSAEGKPS

 RCVGVENRDFI EGVSGGTWVDVVLEHRGCVTVMAPDKPT NCLGTTSNRDFVVEGTSGATWIDDLVLEGGGSCVTVMAPEKPT
 MQNRDFVEGVNGDEWIDVVLEGGSCVTITAKDRPT RCTGTGNRDFDEGMSGGTWVDIVLEGGGCVTVMSNGKPT RCVGVGNRDFVEGVSGGAWVDLVLEHGGCVTVMAQGKPT

 THCLLGIPKRDFI RGMDGNTWVSVVLEQGSCVTLIAADNKPS

 R CI GI S N R E FVV G GVS G G S WV DIV L E H G S CVVK TMAK N K V T
 THCVVGIPKRDEVQGVQGNTWVNLVLDQGSCVVTLSSDNKPS THCVRSNTRDFVQGISGGTWIDVVLEGDGCVTIMAEGKPS







KCTGVQNRDFTTGVKGTTWVDVALEAGGCVTTTAQDKPT
 T NCVTII S QRE ILLKGVEGVTWFEVLLEKTSCITIAA QNRPS $R C V G V G N R D F V E G L S G A P W V V V V L E H G G C V T T M A K N K P T$ K R D M I R G DLLGT T WVD A FLEK G S C S T L MVEDKPA DFVTGVQGTTRVSLVLELGGCVT $\square$ TAEGKPS

RCVG $\square$ GS RDFVEGLS GATVVDVVLEHGSCVT TMAKDKPT


SRCTHLENRDFVTGTQGTTRVTLVLEDGGCVTDTAEGKPS

LDEGVS G A T WVD LVLEGDSCVT $\square \mathrm{MS} \mathrm{K} \mathrm{D} \mathrm{K} \mathrm{P} \mathrm{T}$



REYCLHAKLSDTKVAARCPTMGPA A V L R K LLCI E A K I S N T T T D S R C P T Q G E A


MDVWLDA $\square$ Y QENP AX T REYC LHAK L S E TK VAARCPTMGPA
TVARCPTTGEA
$\square D$ VK M M N MEAANLAE VRSYCY LATVSDLSTKAACPTMGEA

HDVVE $\square$ T V VK K T $\square R$ P T K T F L L G A SV NTESRAKCP GAGSA

P


## oUERY

UniRea90 AOEKU2 UniRef90-K9J8W7 UniRef90-K9J8W9 UniRef90_A0EKU6 UniRef90_Q4VIX4 UniRef90_A0EKU4 UniRef90-A3RM18 UniRef90_A0A024B7W1 UniRef90_Q32ZD4 UniRef90 M4VN61 UniRef90_B9UNR2 UniRef90_Q32ZD8 UniRef90_M4W688 UniRef90_A0A023VTS3 UniRef90_B0FMQ7 UniRef90_C8XPB6 UniRef90 W0LHX4 UniRef90_C8XPB3 UniRef90_A0EKU3 UniRef90A0EKU1 UniRef90 C5H431 UniRef90_C8XPA8 UniRef90_Q32ZE0 UniRef90_A0EKU5 UniRef90_P87638 UniRef90_A0EKU7 UniRef90_C8XPB2 UniRef90_X5F9Q4 UniRef90_S5U0T9 UniRef90_Q7T918 UniRef90_H9BYJ9 UniRef90 - P29165 UniRef90_Q32ZD9 UniRef90_C8YMC5 UniRef90 C1KC23 UniRef90_H9XFD8 UniRef90_W0LLG3 UniRef90_H2FH30 UniRef90_B9TRQ0 UniRef90-Q8JJZ3 UniRef90-Q8QL64 UniRef90_A8D9V5
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UniRef90_Q91KY0 UniRef90-R418U2 UniRef90_K7U1E9 UniRef90_C3UR99 UniRef90-P33515 UniRef90_C5NSM2 UniRef90_R9URG8 UniRef90_C8AWQ6 UniRef90_J9PU20 UniRef90_M4N641

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TLAEEHQGGTVCKRDQSDRGWGNHCGLFGKGS\|VACVKAA TLTEEHQVNTVCKRDQSDRGWGNHCGLFGKGSIVACAKFS HNDKRADSAYVCKQGVVDRGWGNGCGLFGKGSADTCAKFT HNEKRTDSNFVCKQGVVDRGWGNGCGLFGKGSIDTCAKFT HNDKRVDDAYVCKSGVVDRGWGNGCGLFGKGSIDTCVKFT T LPEEHQADMVCKRDQSDRGWGNHCGLFGKGSIVACTKFT HNTKRADPKYI CKQGVTDRGWGNGCGLFGKGSIDTCAKFE T LPEEHQKNMVCKRDQSDRGWGNHCGLFGKGSI VGCTKFD H NEKRADSSYVCKQGFTDRGWGNGCGLFGKGSIDTCAKFT Y LDKQSDTQYVCKRTLVDRGWGNGCGLFGKGSLVTCAKFA HNPKALDSNYLCKSTYVDRGWGNGCGLFGKGSLQTCVKFG HNTRRSDPTFVCKRDVVDRGWGNGCGLIFGKGSI DTCAKFT H NS A S S D P K QV C K K G Y S D R G WN N GCGGLIF GK G S L E T C A E F A HNPKATYAEYI CKKDFVDRGWGNGCGLGGKGS I QTAAKF D TLPEEHQANMVCKRDQSDRGWGNHCGFFGKGSIVACAKFE YLDKMADSQFVCKRGYVDRGWGNGCGLFGKGSIVTCAKFT YFKEEQDQQYI ARRDMVDRGWGNGCGLFGKGGVVTCAKFS V S D K K G D G N Y L C K K G Y N D R GWGNGC G L F GK G S Y M S C T K F E TLA EE HS AS YVVCERGFSDRGWGNNCGGLFGKGSVVGCVKFS $H L D E E H Q T G H L C R R D Y S D R G W G N H C G L F G K G S I V G C V R V N$ HMSEEGNEEWECKRSYSDRGWGNGCGLFGKGSIVACAKFS $K D D E E H D K E Y A C K R L Y S D R G W G N G C G G F G K G S L V A C A K Y$ ENSKATDSNYLCRRGVTNRGWNNGCGLFGKGDDHTCVKFK SLAEEHSKDYLCRRDYS DRGWGNHCGLFGKGSIVGCTKVT
 KLEEEASAEYECKKTYSDRGWGNGCGLFGKGSIVACAKYT Y N E K R K D T S YVCHQ GTS GRGWGSGCGLFGQGSLDTCGKFA YNPKRKDHQYVCLRSPS GRGWGNGCAMLFGT GSVVDTCAKFA F LDEES DDQHIVCKRGFSDRGWGNGCGLFGKGSIVACSKFT HNDKRKDSTYLCERSYPDRGWGNGCGLFGRGSLDTCVKFA HLAEENEGDHACKRTYSDRGWGNGCGLFGKGSIVACAKFT $\square L D E E H E V E Y E C K R G F S D R G W G N G C G L F G K G S I V A C A K F A$ HNTKAEDTAF $\square C K S S N P D R G W G N G C G L F G K G S M E T C A K F T$ HNTKAKDTSYMCKVSYPDRGWGNGCGLFGKGSMETCAKFA

 HNPKAK DTLFMCKRELT DRGWGSGCAFFAKGSS ES C CKFA Y LLS E E H T E D Y V VLPEEQDQNYVCKHTYVDRGWGNGCGLFGKGSLVTCAKFQ HLAEEANSDYVVCKRGFSDRGWGNGCGLFGKGSSVACDKTT $H N P K R A E D T Y V C K S G V T D R G W G N G C G L G G K G S I D T C A N F T$ TLPE LH QANMVCKRDQSDRGWGNHCGFFGKGSIVACAKFE YLKE E Q D Q Q Y $\ C R R D M V D R G W G N G C G L F G K G G V V T C A K F S$

 HNEKRADPAFVVK Q GVVVRGWGNGCGGLFGKGSIDTCAKFA
 S L N E E Q D K R F I C K H S MV D R G W G N G C G L F GK G GI V T C A K F T LF GKGSI QTCAKF D
$T F V D R G W G N G C G L F G K G S L I T C A K F K$ $V L A E E H Q \square G T V C K R D Q S D R G W G N H C G L F G K G S I V A C V K A A$
 HNDKRADPAFVCRQGVVDRGWGNGCGLGGKGSIDTCAKABAB

K G S $\square$ H T CAK F E

$\square$ F GTGS $\square$ D TCAKFA
F GKGS $\quad$ VACAK F T
NAKRADPAFVCRQGVVDRGWATGCGLFGKGSIDTCAKFA $K E P T L A F V C K Q G V \vee D R G W G N G C G L F G K G S I D T C A K A A A$


WGNGCGLFGKGSLLTCAKFK
NMAEDSSKERVCTTQPYNRGWGTGCFKWGDGFVGTCVELH
 DMARI RRHNRTCKVDSFNRGWGTGCFEWGLGQVATCVVEV EMAKL R RANRTCKVDAFNRGWGTGCFEWGLQQFATCVVEVQ




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UniRef90_AOAO24B7W1 UniRef90-Q32ZD4 UniRef90-M4VN61 UniRef90-B9UNR2
UniRef90 Q32ZD8 UniRef90-M4W688 UniRef90-A0A023VTS3 UniRef90_BOFMQ7 UniRef90-C8XPB6 UniRef90-WOLHX4 UniRef90-C8XPB3
UniRef90 A0EKU3 UniRef90-AOEKU1 UniRef90-C5H431 UniRef90-C8XPA8 UniRef90-Q32ZEO UniRef90-AOEKU5 UniRef90-P87638
UniRef90 A0EKU7 UniRef90-C8XPB2 UniRef90-X5F9Q4 UniRef90_S5U0T9 UniRef90-Q7T918 UniRef90-H9BYJ9 UniRef90-P29165
UniRef90_Q32ZD9 UniRef90-C8YMC5 UniRef90-C1KC23 UniRef90-H9XFD8
UniRef90' WoLla UniRef90-H2FH30 UniRef90-B9TRQ0 UniReffo-O8JJZ3 UniRef90-Q8QL64
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UniRef90_B5UOY5 UniRef90-B1PKB9 UniRef90-Q19K11
 UniRef90-Q91KP3 UniRef90-Q76BX3

UniRef90 - 2 Z JJ3 UniRef90_W6FHMO UniRef90-Q91KZ1 UniRet90-Q8JYV8 | UniRef90-O6VYH3 |
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| UniRef90 |
| 1 O | UniRef90-G9DDB7 UniRef90-Q91KZ2 UniRef90-Q7TDC4 UniRef90-Q8QVE1 UniRef90-091KY6 UniRef90-B7U2U8

UniRef90-W8PAEO UniRef90_Q9DXE2 UniRef90-Q3LYG9 UniRef90-B6DQ68 UniRef90-Q91CE7 UniRef90-O91CE2 2 UniRef90 Q91CE3 UniRef90-Q91KY1 UniRef90-O91KX6 UniRef9-Q91KY7 UniRef90-Q91KYO UniRef90-R418U2 UniRef90-C3UR99 UniRef90-P33515 UniRef90-Q80DQ2 UniRef90_C5NSM2
UniRef90_R9URG8 UniRef90_C8AWQ6 UniRef90_-99PU20 UniRef90_M4N641


 UniRefon AOEKU2 UniRef90-K9J8W7 7 UniRef90-K9J8W9 UniRef90-AOEKU6 UniRet90-Q4VIIU UniRef90-AOEKU4 UniRef90-A3RM18
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UniRef90-Q91KY6 UniRef90-B7U2U8 UniRef90 W8PAEO UniRef90-Q9DXE2 UniRef90-Q3LYG9 UniRef90-B6DQ68 UniRef90-Q91CE7 UniRef90-Q91CE2 UniRef90-Q91KY8 UniRef90-Q91CE3 UniRef90-Q91KY1 UniRef90-O91KX6 UniRef90-Q91KY9 UniRef90_O91KY7
UniRef9O-Q91KY0 UniRef90-R418U2 UniRef90-K7U1E9 UniRef90-C3UR99 UniRef90-P33515 UniRef90-C5NSM2 UniRef90-R9URG8
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 $L V E F E E A H A T K Q S V V A L G S Q E G A L H Q A L A G A \square P V D Y K N S V$ L V E F GAPHA

LMEFEE

LIEFEEAHATKQSVVALASQEGADHGADAGADPVKYSGSK $L V T F K T A H A K K Q E V V V L G S Q E G A M H T A L T G A T E I Q T S G T T$
LVEFGVPHAVKMDVYT DGDQMGTM■HS LTGA LMADVQGNK LMEFEEAHATKQSVV


QUERY
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UniRef90_A0A024B7W1
UniRef90_Q32ZD4 UniRef90_M4VN61 UniRef90-B9UNR2
UniRef90 Q32ZD8 UniRef90-M4W688 UniRef90-A0A023VTS3 UniRef90_B0FMQ7
UniRef90 C8XPB6 UniRef90_W0LHX4 UniRef90_C8XPB3 UniRef90-A0EKU3 UniRef90 C5H431 UniRef90_C8XPA8 UniRef90-Q32ZE0 UniRef90_A0EKU5 UniRef90_P87638
UniRef90_A0EKU7 UniRef90_C8XPB2 UniRef90_X5F9Q4 UniRef90_S5U0T9
UniRef90 Q7T918 UniRef90-H9BYJ9 UniRef90_P29165 UniRef90-Q32ZD9 UniRef90_C1KC23 UniRef90_H9XFD8
UniRef90_W0LLG3 UniRef90_H2FH30 UniRef90_B9TRQ0 UniRef90_Q8JJZ3
UniRef90-Q8QL64 UniRef90_A8D9V5 UniRef90_Q9J9C2 UniRef90_A5JEGO UniRef90_I6SIW5 UniRef90-W0LHQ3 UniRef90_B5U0Y5
UniRef90 B1PKB9 UniRef90-Q19KI1 UniRef90_Q2NMF1 UniRef90_Q9PZB7 UniRef90_Q91KP3 UniRef90_Q76BX3 UniRef90- ${ }^{-}$2JBJ3
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UniRef90_Q91KY6 UniRef90_B7U2U8 UniRef90_W8PAE0 UniRef90-Q9DXE2
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| $Y$ | $I$ | $L$ | $D$ | $G$ | $G$ | $H$ | $L$ | $S$ | $C$ | $R$ | $\square$ | $G$ | $V$ | $N$ | $G$ | $L$ | $K$ | $M$ | $V$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $V$ | $K$ | $L$ | $T$ | $S$ | $G$ | $H$ | $L$ | $K$ | $C$ | $R$ | $V$ | $K$ | $M$ | $E$ | $K$ | $L$ | $T$ | $L$ | $K$ |

NHMFA GHLKCKVRMEK LRTVKGM VK L S S G HL K C RVKKME KL KLLK G
 Y H L K S G H VT CEVGGLEK L K LIK G M

LT L N S G H L K C R L K L D K L K $\square K G$ H H L Q S G HVV TC DV GL E K L K M K G M L E MT S G HL K C RVVK L Q GL K L K G M $V$ K LT T S G H L K C C R L K K M D K L A A L K G



GRLFSGHLKCRLKMDKLRLKGV Y K L H G G HVV S C R V K F S A L T L K G S I F A G H L K C R L K M D K L E L K G M L K L T S G H L K C R V K M E K L K L K G


A H $\square$ P S G H LT C R L K LE G L K V VG M
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\mathrm{CQDM} \mathrm{\square D} \mathrm{~K} \mathrm{LV}
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T T R DGGFV CQ $\square \mathrm{MLD} \mathrm{L} \mathrm{L} \mathrm{L}$



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lupas_21
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l}\begin{array}{l}{\mathrm{ sol25}}\\{\mathrm{ sol5}}
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