

QUERY	1	10	20	30	40														
UniRef90_D8JI20	YNNNI	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_A5WH03	YNSLV	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_UPI000375EB94	YNSLV	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_J9F0V6	YKNI	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_W7AXU4	YDLI	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_B4WMB5	YDYV	PSAV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_H1ZYM4	YSNVI	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_A7RYC0	YVNI	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_W6MAP2	YENI	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_A4VZX3	YTTI	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_H2AV32	YTNVI	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_G5JZ89	YTKI	GTVI	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_U2QK9	YNNV	ATVI	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_G0R8F3	YENI	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_D2ANA2	YENI	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_W2T3L0	YENI	ATVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_H2YR28	YNNI	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_F4PU44	YDTV	PTVI	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_UPI000455E183	YEDI	PSVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_F6DSE9	YRAV	PSV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_E3BEZ6	YNLV	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_B3RLQ8	YSNI	ATVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_UPI0004009DD3	YHNI	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_A0ZEP8	YENI	PTAVI	FSTT	PEA	ATV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_UPI000395872A	YDNI	PTAV	FSTT	PEA	ATV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_E4UB01	YALI	PTVVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_UPI00036C54BF	YDLV	PSVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_A1AVW4	YNNI	ATVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_A0A023GKJ3	YENI	PTVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_J2WA95	YRNI	PTAV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_G4R6B0	YSVI	PGVV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_I1AV86	HDLI	PSAV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_A0A022QWP2	YDLV	PGVV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_K9WN86	YDNI	PSAV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_UPI000360E2BC	YDLV	PGVV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_Q7VD20	YEFI	PKAV	FSSQ	PEL	AVV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_F7SRS4	YATI	PTAV	FSTT	PEA	ATV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_F7VDW4	YDAI	PGVI	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_C5K9F5	YDSI	PSVV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_X1QX23	YHAV	PSV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_L0P7Y5	YNAI	PGVM	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_B2KNE4	YDVI	PGVV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_DOMKE3	YNNI	PGCT	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_A1U0C8	YSAI	PTAV	FSTT	PEA	ATV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_C4XZ89	YSNV	PSVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_K9YCB2	HENV	PSAV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_A3YZ63	HDLV	ASAV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_V4A6K4	YNCV	PSVI	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_B7FZC3	YDLV	PTVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_F7PHZ5	YDAV	PAVV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_UPI00037632FC	YDYI	PWVI	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_A6FKU8	HALI	PTAV	FSTT	PEA	ATV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_M5BHS4	YENI	PTVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_UPI00037B3724	YDVI	PSVV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_F5RA43	HDTV	PWVI	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_M1Z1S0	PVI	PAVV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_Q7V2B4	YENI	PKAV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_M2SGX2	YDCV	PSAV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_A4FLD8	YDVI	PSAV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_A8TQ86	HDDV	PSAV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_UPI000347109B	YDAI	PSVI	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_G8BMT7	YSNV	PSVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_J9YS57	YDTI	PGVV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_K2GNX8	HDRJ	PSAV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_W9CQ71	YNNI	PTVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_B6JZX4	YNNI	PSVI	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_H2ATQ3	YNNI	PSVM	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_R9PBE6	YAAI	PAVV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_D5WSY2	YRVI	PAVV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_I0IB23	YDVM	PGIV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_C6VYZ3	YGNV	PGCT	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_F4KZ48	YNNI	PSCT	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_A0A034VK02	YNCV	PSVV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_F9ZRG8	YNNI	PTVV	FSSHH	PPPII	GGTIV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_A6GN99	YDTI	PWVI	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_UPI00039ED907	HNI	PGVV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_W5XOX1	YDVI	PGVI	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_UPI0003685056	YRVV	PGVI	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_UPI0003C18BCF	YNCV	PSVI	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_A0A037ZF00	HELV	PSAV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_L1Q8L3	YEA	AV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_I4C095	RVV	PSV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_G2QI25	YGCV	PSVM	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD	NM	VV	KV	YK	TS	SS	FF
UniRef90_D3NZW3	YDNI	PTAV	FSTT	PEA	ASV	GLL	TTE	EE	EQQAI	IEE	EEFY	GGGD							

QUERY
UniRef90_D8JI20
UniRef90_A5WH03
UniRef90_UPI000375EB94
UniRef90_J9F0V6
UniRef90_W7AXU4
UniRef90_B4WMB5
UniRef90_H1ZYM4
UniRef90_A7RYC0
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UniRef90_U2QQK9
UniRef90_G0R8F3
UniRef90_D2ANA2
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UniRef90_C5K9F5
UniRef90_X1QX23
UniRef90_L0P7Y5
UniRef90_B2KNE4
UniRef90_DOMKE3
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UniRef90_C4XZ89
UniRef90_K9YCB2
UniRef90_A3YZ63
UniRef90_V4A6K4
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UniRef90_D3NXL1

50 60 70 80
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T A M Y D A V A Q H K Q Q L T K M K L V C C L G D K E E K V V V G I H G I G L N M D D E M
T P M Y S A V T T Q H R Q Q C C R M K L V C C L G D K E E K V V V G I H G I G L G V D D E M
U P I 0 0 0 3 7 5 E B 9 4
N P M Y Y A V T T Q H K E S P T R M M K L I C C A G E N E R R I V V G L H H M L G D G G C D D E M
J 9 F 0 V 6
T S M Y T V I T E H R E S S R M K L I C C E G E S E N S D K V V L G G A H H M V G T G H A A E L
W 7 A X U 4
R S M Y T T L P N K D Q K T L M K L V V V H T E S E N S D K V V L G G A H H M V G T G H A A E L
B 4 W M B 5
K P L F F A V T E R V Q K C Q M K L V C L L P E E K V I I G L H H M C G M G C A D E M
H 1 Z Y M 4
V N M Y Y A V T D K K H T K H M K L I T L L P E E K V I V G L H H L I G L G A D D E M
A 7 R Y C 0
R P M Y H S F T A R R P T K D T L M K L V C L V G P E E K V I V G G L H L I G L G E G A D D E M
W 6 M A P 2
T S M Y T A L E N N R Q M A K F K L V T V G E N E K V V V G L H H G I G Y G V D D E M
A 4 V Z X 3
T A M Y Y A M L T E K S P T N Y K L I C A G P D E E K V I V G L H H L I G Y G V S A E L
H 2 A V 3 2
T S M Y T A I T K H R Q S C K M K L V T A G P D E E K V I V G L H H G I G Y G V D D E M
G 5 J Z 8 9
T P M Y S A V T N N R Q S P S T M K L V T V G A D E E K V I V G L H H G I G F G V D D E M
U 2 Q Q K 9
T A M Y A M M D P E R S K P Y K L I V T A G P D E E K V I V G L H H L I G Q G S A E L
G 0 R 8 F 3
T A L Y C A I S G H R M P K T V M K L V V T G D N E E K V I V G G C H H M I G L N V D D E M
D 2 A N A 2
N P M Y H A V T K H K E P C I M K L I C A G P E E R V V V G V H H L I G A G A D D E M
W 2 T 3 L 0
S P M Y H A M T K R K T K V V M K L V C L L P E E K V V L G L H H M Q G L G S C D D E M
H 2 Y R 2 8
T N M F Y A N D T Y K P K F L P M K L I V T G P E E K V V L G I H H S I G L G S D D E M
F 4 P U 4 4
R S L Y F S Q T A E E H K E P Y K L V C V G E E E R V V L G L H H T I G Q G S D D E T
U P I 0 0 0 4 5 5 E 1 8 3
M A N G K A L S M G E G D G F V K V V T H A E T D R I V L G V H H L I G F P H A S D D L
F 6 D S E 9
T A M Y T A V T Q H R Q P C K M K L I C A G D E E K V V L G V H H G I G F T V D D E M
E 3 B E Z 6
T P M Y H A V T T R K T P S L M K L I T V L P E E K V I V G L H H L I G L G S D D E M
B 3 R L Q 8
T A M Y S S F S G K P V K T A M K M V C A G D E E K V V G L H H L I G P S V D D E M
U P I 0 0 0 4 0 0 9 D D 3
R P M Y T L A S D K D E K T M M K L V V D Q N T D K V V G A H H M V G T S A A E L
A 0 Z E P 8
K P L R H T L S G R S E R C L V K L V V D D A S D K V V L G L H H V V G A D A A E L
U P I 0 0 0 3 9 5 8 7 2 A
S A N G R A R S M N S T D G F V K I L A D A D K S D R I V L G V H H L I G V G V G A G E M
E 4 U B 0 1
Q A N S R A R T N H E T T D G F V K I L A D A K T D R I V L G G A H H M M G V G V G E M
U P I 0 0 0 3 6 C 5 4 B F
T P M A D A L L E H K T T A L K L V C A G D N E K V I V G C H H I M G H G A D D E T
A 1 A V W 4
T P M Y Y S M T E R K S K C V M M L V C A G A S E D R V L G V H H M I G D G C D D E I
A 0 A 0 2 3 G K J 3
K P L K N T L S G N T E R T F M K L V V D A A S D R V L G V H H M V G P D A G E V
J 2 W A 9 5
T A N G R A K A M L A P Q G F V K I L A D K E T D R V L G Y C H H I V G K G A G E M
G 4 R 6 B 0
M M T A F A G R P D R V L M K L I V C K D T R R V L G C H H I V A P N A G E M
I 1 A V 8 6
L A N S R A K A I D D A E G L V K I L A E K E T D R I V L G V H H I M S P N A G E L
U P I 0 0 0 2 2 Q W P 2
R P M Y H T L S G R A D K T M V K L V V I E E D T Q K V L G A H H M V G E H A A E L
K 9 W N 8 6
A A N A R A K V N D E G E G F V K I L S D E K T D R V L G V H H M I G P D V G N E M
U P I 0 0 0 3 6 0 E 2 B C
K P M S K M L V K S D E K C F L K L I I E K N S N K V V G G C H H M L G E H A S E L
Q 7 V D 2 0
K A M K H T L S G S Q E R T L M K L I V D D A T D V V L G A H H M V G D E A S E L
F 7 S R S 4
M A N G R A R A L G M T D G F V K V I A C K K T D R L L G A V H I V P C A G E L
F 7 V D W 4
A A S G R A K C V D S T E G F V K V I S Q K K D D R L L G A C I V Q A S A G E L
C 5 K 9 F 5
L A C G R A V T M D E T I G M V K M I C N A Q N S R V L G M H I I M G P H A S D L
X 1 Q X 2 3
A A N S R A K T N L E T E G L V K F V T D K E T D R I V L G H H I I M G P N A G E M
L 0 P 7 Y 5
Q A N S R A R A Y D Q P D G L I K V I A D K K T N K I L L G V H H M C G L N V S E L
B 2 K N E 4
T A S G K A T A L G H T E G F V K V I F D A K Y G E F L G C H H I G H D A T E L
D O M K E 3
R P M K Y T L S G R D E R C L M K L I V D D S A G K V L G A H H M V G P D A G E L
A 1 U 0 C 8
N A M Y Y A M M D S D D D K V P C V Y R L I C A S D K V V L G L H H I V G D S S E I
C 4 X Z 8 9
G S T Y F S V T Q R K E K A M L K L V V Q K S S D R V L G A H H M V G E A A A E I
K 9 Y C B 2
R S M A Q A L P K R G P R C L L K L V V E V A S G R V L G C H H M V G E H A A E I
A 3 Y Z 6 3
V A N S R A K L C N N D T D G F V K V L G D K K T D R L L G A H H I G S V A G E L
V 4 A 6 K 4
A N L Y Y G P W Q I E P E D K P K T A M K L I C E L V V G L H H V I G M G A D D E M
B 7 F Z C 3
A D V P K A K A V Q E D T R G L V Q V V K H H E T D A I V L G V H H M V G P R A A D D M
F 7 P H Z 5
A A I G R A V A M N E T A G F V K V L A H A E T D R L L G V H H M V G P G V S E L
U P I 0 0 0 3 7 6 3 2 F C
K P M Q Q A F A G R E D R V L M K L I V S Q E T R R V L G C H H I V A P G A G E M
A 6 F K U 8
A L Y Y M P E G H K E P T A Y K L V C V G P E E K V V L G I H I I G L G S D D E V
M 5 B H S 4
T A N G R A K A N A T T E G F V K V L A D A K T D R V L G V H H I V G P R A G D L
U P I 0 0 0 3 7 B 3 7 2 4
A N G R A L G Q G D T T G F V R M Y A C A K T D R I V L G V H H V I G N N A S E L
F 5 R A 4 3
G A S G R A T T L G R N D G Q M T K L I L E P K T G K I V L G L L V G T N A G E L
M 1 Z 1 S 0
T P M S N T F K K N K S K L V V N K K N D K V L G G I C H M F G E A A S E I
Q 7 V 2 B 4
R A M K N V L A N R N E R S L Y K L I V D S A N G K L V G A H H M I G P D A P E I
M 2 S G X 2
A A I G R T K T Y G N S D G F M K L V A G K Q Y G E V L G V H H I G Q S A S D L
A 4 F L D 8
R P M K Y T M T E N S E R G L M K L V V D R A S Q R V V G A H H M L G V D A P E L
A 8 T Q 8 6
A A N G R A M A N N A T E G S A K V I A D A E T D R I V L G L H H I V G Q H A G E M
U P I 0 0 0 3 4 7 1 0 9 B
T D M Y N A D P I K K G P T G Y K L V C A G P E E K V V L G L H H I V G P S S S E L
G 8 B M T 7
M A N S R A K A I D D A E G F V K I L A D E K S D R V L G A H H I V G P H A S E L
J 9 Y S 5 7
R P M Q Q A F I G R K D R V L M K L I V S R R T R V V L G C H H I V A Q N A G E M
K 2 G N X 8
A A M F Y D F P A E D K V H F K I C E G E E R I V L G L H H I G L G V D D E M
W 9 C Q 7 1
F G L N Y A M V D P E D K I P Y K I C V G P L E K V V G L H H I V G D F S G E M
B 6 J Z X 4
I A N S R A K T N M D T E G F V K L L I D A E T E R I V L G A H H I V G P N A G E M
H 2 A T Q 3
L A N S R A K T N A D S D G T V K F L V E K E S T D K V L G V H H I V G P N A G E M
R 9 P B E 6
A A N G R A L S L T D A E G F V K L V A D K S T G E L L G A Q I V G P E A S D L
D 5 W S Y 2
M A N G R A K A I D E T A G M V K F L C D A R T D R V L G C H H L L G P G G D D L
I 0 I B 2 3
K A S G K A V G A G V T D G F V K V I F D A K Y G E F L G A H H M I G A N V T E M
C 6 V Y Z 3
S A S G K A S A A G D K T G F V K V I S D K Y G E F L G A H H M I G Q N V T E M
F 4 K Z 4 8
L A N S R A K T N N E T D G F V K V L A D K A T D R V L G T H H I G P S A G E L
A 0 A 0 3 4 V K 0 2
T P L L R A L D R D H P Q T H M K L V T V G A E E R I V L G T H H I G D G V D E M
F 9 Z R 8 8
M A N G R A L G Q G D S Q Q G F V K V L A D S T E D E R I V L G V H H I N S H A S E L
A 6 G N 9 9
Q A N S R A R T N H T T E G M V K V L A D K K T D T V L G V H H I C V G A G E L
U P I 0 0 0 3 9 E D 9 0 7
M A N G R A R A K G F I E G F V K I V I A D K K T D R I V L G A H H M V G P G V S E L
W 5 X 0 X 1
R A N G K A L I E G E V E G F V K I S D E K S G E I L G V H I I G P S A S N L
U P I 0 0 0 3 6 8 5 0 5 6
A A N S R A K T N A D T D G M V K I L G Q K S T D R V L G A H H I L G P S A G E M
U P I 0 0 0 3 C 1 8 B C F
Q T L F A G R Q D K V L M K L V V D Q A S Q K V L G C H H I V A D H A G E M
A 0 A 0 3 7 Z F 0 0
R P M K Y A F T R S D E R V L M K L V V E A E T Q R V V G C H H I V G P D S P E M
U n i R e f 9 0 _ L 1 Q 8 L 3
S S N G K A Q A M G D S R G W V K L L E D S T S G S L I G A H H L G P E A S E L
U n i R e f 9 0 _ I 4 C 0 9 5
S A N S R A K T N L D T E G M V K M L A D A E T D R L L G I H L I G P N A G E M
U n i R e f 9 0 _ G 2 Q I 2 5
R P M K H T L S G R D E R V L M K L V V D G E S Q R V L G C H H M M G M D A P E M
U n i R e f 9 0 _ D 3 N Z W 3
V S M Y Y G M L I E E K A P S A F K M V V G P G E K V V G L H H I V G L G A D D E M
U n i R e f 9 0 _ V 5 E T A 6
T N L F F S V Y D M D P A Q K E K T Y C V G K E E L I K G L H H V G L N A D D E L
U n i R e f 9 0 _ B 3 L A 1 0
S A L G K S V C D G N T E G F V K V I F D D K Y D E W L G C H H M I G N H V T D L
U n i R e f 9 0 _ D 0 J 9 L 4
M A N S R A K A V G D T A G F V K V I A D A Q T D K V L G V H H I G E H A G D M
U n i R e f 9 0 _ U P I 0 0 0 2 2 5 A 8 B A
T P M K I S L A G R V E K A F M K L I V D V D T D K V L G C H H M V G P D A E L
U n i R e f 9 0 _ C 1 M Y 6 9
K A L K H T L S G S T E R T L M K L I V E D A T D R V V G L H H M V G P D A G E L
U n i R e f 9 0 _ J 2 L M Q 8
T A N G R A R A G N T D G F V K I L S D A A T D Q V L G V H H M I G P N V S E M
U n i R e f 9 0 _ D 3 N X L 1

QUERY	90	100	110																																		
UniRef90_D8JI20	L	Q	G	F	A	V	A	V	K	M	G	A	T	K	A	D	F	D	N	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R		
UniRef90_A5WH03	I	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	D	F	D	N	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R
UniRef90_UPI000375EB94	I	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	D	F	D	N	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R
UniRef90_J9F0V6	I	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	D	F	D	N	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R
UniRef90_W7AXU4	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	D	F	D	N	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_B4WMB5	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	D	F	D	N	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_H1ZYM4	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	D	F	D	N	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_A7RYC0	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	D	F	D	N	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_W6MAP2	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	R	D	F	D	D	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_A4VZX3	I	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	E	E	F	D	A	V	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R
UniRef90_H2AV32	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	D	F	D	N	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_G5JZ89	I	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	D	F	D	D	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R
UniRef90_U2QQK9	I	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	K	D	F	D	D	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R
UniRef90_G0R8F3	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	E	D	F	D	N	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_D2ANA2	L	Q	Q	F	F	A	V	A	I	N	M	G	A	T	K	R	D	F	D	D	T	I	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_W2T3L0	L	Q	Q	F	F	A	V	A	I	T	M	G	A	T	K	A	Q	F	D	A	C	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_H2YR28	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	Q	F	D	D	C	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_F4PU44	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	E	D	L	D	N	T	C	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_UPI000455E183	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	Q	D	F	D	D	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_F6DSE9	L	A	E	A	T	L	A	V	Q	K	G	L	T	A	K	E	L	A	G	V	I	H	A	H	P	T	S	S	E	E	F	V	T	M	R		
UniRef90_E3BEZ6	I	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	D	F	D	A	V	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R
UniRef90_B3RLQ8	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	D	F	D	N	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_UPI0004009DD3	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	Q	D	F	D	D	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_A0ZEP8	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	N	F	D	A	T	V	G	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_UPI000395872A	T	Q	Q	F	F	A	V	A	I	K	A	G	A	T	K	A	L	F	D	Q	T	I	G	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_E4UB01	I	H	E	A	A	V	L	M	E	F	G	G	S	E	D	L	A	R	T	C	H	A	H	P	T	S	S	E	E	F	V	T	M	R			
UniRef90_UPI00036C54BF	I	H	E	A	A	V	L	M	E	F	G	G	S	E	D	L	A	R	T	C	H	A	H	P	T	S	S	E	E	F	V	T	M	R			
UniRef90_A1AVW4	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	K	Q	F	D	D	T	I	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_A0A023GKJ3	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	Q	F	D	D	C	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_J2WA95	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	Q	F	D	L	T	I	G	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_G4R6B0	I	H	E	A	A	V	L	M	E	F	G	G	S	E	D	L	A	R	T	C	H	A	H	P	T	S	S	E	E	F	V	T	M	R			
UniRef90_I1AV86	I	Q	L	A	G	I	A	I	K	M	G	A	T	K	E	D	F	D	R	T	V	A	V	H	P	T	S	S	E	E	F	V	T	M	R		
UniRef90_A0A022QWP2	I	H	E	A	V	L	M	E	H	Y	G	A	S	E	D	L	A	R	T	C	H	A	H	P	T	S	S	E	E	F	V	T	M	R			
UniRef90_K9WN86	I	Q	Q	L	A	I	A	L	K	M	G	A	T	K	Q	D	F	D	A	T	V	G	I	H	P	T	S	S	E	E	F	V	T	M	R		
UniRef90_UPI000360E2BC	I	A	E	M	A	L	A	S	M	E	F	G	A	T	K	A	E	D	L	A	R	T	C	H	A	H	P	T	S	S	E	E	F	V	T	M	R
UniRef90_Q7VD20	I	Q	Q	M	A	I	A	S	M	N	M	G	A	T	K	L	D	F	D	Q	T	M	A	L	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_F7SRS4	I	Q	Q	L	A	L	A	V	R	A	G	L	T	K	E	D	F	D	R	T	I	G	I	H	P	T	S	S	E	E	F	V	T	M	R		
UniRef90_F7VDW4	I	A	E	A	T	M	A	I	N	F	G	A	S	E	D	I	G	R	V	C	H	A	H	P	T	S	S	E	E	F	V	T	M	R			
UniRef90_C5K9F5	I	H	P	F	V	L	A	I	N	Y	G	A	S	E	D	V	A	R	T	C	F	A	H	P	T	S	S	E	E	F	V	T	M	R			
UniRef90_X1QX23	I	A	E	G	V	L	A	I	Q	L	G	G	T	A	R	D	I	A	H	T	I	H	A	H	P	T	S	S	E	E	F	V	T	M	R		
UniRef90_L0P7Y5	I	A	E	G	V	L	A	V	E	Y	G	A	S	E	D	I	A	R	T	H	A	H	P	T	S	S	E	E	F	V	T	M	R				
UniRef90_B2KNE4	I	A	E	A	G	L	A	M	E	Y	G	A	S	E	D	V	A	R	T	C	H	A	H	P	T	S	S	E	E	F	V	T	M	R			
UniRef90_D0MKE3	I	A	E	A	V	T	A	R	T	L	E	T	T	Y	H	E	I	L	E	S	I	H	P	H	P	T	S	S	E	E	F	V	T	M	R		
UniRef90_A1U0C8	I	Q	Q	L	A	V	A	I	K	M	G	A	T	K	A	Q	F	D	A	T	M	G	I	H	P	T	S	S	E	E	F	V	T	M	R		
UniRef90_C4XZ89	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	K	D	F	D	N	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_K9YCB2	M	Q	Q	F	F	A	V	A	I	P	K	M	G	A	T	K	A	D	F	D	A	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R
UniRef90_A3YZ63	I	Q	Q	M	A	A	I	A	L	G	M	G	A	T	K	A	D	F	D	R	T	M	A	L	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_V4A6K4	I	N	E	A	A	L	A	M	E	Y	G	A	S	E	C	E	D	L	A	R	V	C	H	A	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_B7FZC3	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	D	F	D	A	T	I	A	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_F7PHZ5	I	P	E	A	T	L	A	V	K	F	G	L	T	V	D	I	D	T	I	H	P	F	P	T	S	S	E	E	F	V	T	M	R				
UniRef90_UPI00037632FC	I	A	E	A	V	L	A	M	E	F	G	S	A	E	D	L	A	R	T	I	H	A	H	P	T	S	S	E	E	F	V	T	M	R			
UniRef90_A6FKU8	L	Q	L	A	G	I	A	V	K	M	G	A	T	K	E	D	F	D	R	T	V	A	V	H	P	T	S	S	E	E	F	V	T	M	R		
UniRef90_M5BHS4	M	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	K	D	D	T	V	A	I	H	P	T	S	S	E	E	F	V	T	M	R			
UniRef90_UPI00037B3724	I	A	E	A	A	I	A	M	E	F	G	A	S	E	D	I	A	R	T	C	H	A	H	P	T	S	S	E	E	F	V	T	M	R			
UniRef90_F5RA43	I	A	E	A	V	V	A	M	E	F	D	A	C	S	E	D	I	A	R	T	C	H	A	H	P	T	S	S	E	E	F	V	T	M	R		
UniRef90_M1Z1S0	I	S	E	G	V	L	A	N	T	L	G	A	T	A	E	D	L	A	H	S	I	H	P	H	P	T	S	S	E	E	F	V	T	M	R		
UniRef90_Q7V2B4	L	Q	M	V	A	V	A	S	L	N	T	G	I	T	K	K	D	F	D	T	T	M	A	L	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_M2SGX2	M	Q	S	L	A	I	A	V	K	A	G	L	T	K	K	Q	V	D	A	T	I	A	I	H	P	T	S	S	E	E	F	V	T	M	R		
UniRef90_A4FLD8	I	T	E	G	A	L	A	I	N	L	E	A	T	L	D	E	L	A	E	T	V	H	A	H	P	T	S	S	E	E	F	V	T	M	R		
UniRef90_A8TQ86	I	Q	Q	F	F	A	V	A	I	R	M	G	A	T	K	R	D	F	D	R	T	I	G	I	H	P	T	S	S	E	E	F	V	T	M	R	
UniRef90_UPI000347109B	I	A	Q	Q	V	I	A	M	E	F	G	S	A	E	D	L	A	L	T	C	Y	A	H	P	T	S	S	E	E	F	V	T	M	R			
UniRef90_G8BMT7	L	Q	Q	F	F	A	V	A	I	K	M	G	A	T	K	A	D	F	D	N	T	V	A														

UniRef90_UPI000344EAE2 1 H K N I V P S A V F S Q P E A G T V G M T E 20 A K A K R E E L G D G V K I Y R A R F 40
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UniRef90_A5CFW7 Y N V I P S V I Y T T A P E I A S V V G K T E E E E V Q A S G R E Y K V G T G T P F F
UniRef90_D3D4E4 Y R V V P A A T F T H P E I A S V V G L N E E A A A R K A S G M D V T V A T F F P F
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UniRef90_L7VFW0 Y S L I P S V I Y T H P E I A S V G K N Q E Q L R D E G R S Y N I G K F P M
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UniRef90_S3NJG9 Q A N G K A L A L G A A A G F V K T I F N Q E T G E L L L G G A H M V G P H E V T E H
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I L G E A V M A M Q L E C T V Q E L A R S I R V H P P T F S E A V V D
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V A E V A L A L D V F G A T L E E D I A T T V H T H P P T L S E A V M E
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I A E A Q L I T N W E A H P A E V A Q L V H P H P P T L S E A I M D
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I V L A G M A I E D G K T L E D W K R Y V F P H P P T L S G E I F R E L
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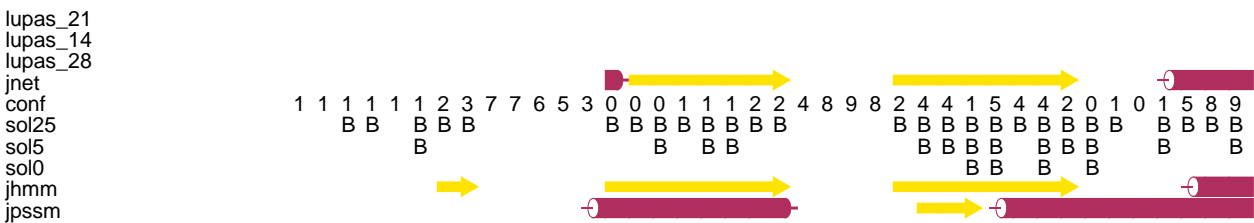
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