

Tsompanidou_et_al_Supplemental_FASTA_File

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Tsompanidou_et_al_Supplemental_FASTA_File

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rtl i k s k k l y n n s y n k g g
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e t a v n q v g v d v n t a s s l l
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i v i s d k g d s f d y e t t k s k i
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s v d m t q g v n q i g g v d l i q i k t p s d g i v l s v i s k k q g e y l e r y i d q l q t e l k t e m a q s s t e q n g n r n q d i e g n v e d i a e
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r f y g f s v m l e n e q l k i e y g
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q l s v q y r t s f l i y k e e t s r
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l y k n g v s s g g s n e s n g n t e
l i a r v k h h v k f g n s n v t i d a t s s g s g l d p h i t v e n a l k q a p r i a d a r h i s t s r v a d l i q h r k q r g v l t n d y v n v l e l n i
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ekayai k i d p d v e d k g t d a l q n l k a l g f k h k g f k e g l s k d y i q p r m t m i t p i d k n d d e l l n s f e r n r s k v r l a l k r g t
t v e r s d r e g l k t f a e l m k i
t g e r d g f l t r d i s y f e n i y d a l h e d g d a e l f l v k l d p k e n i a k v n q e l n e l h a e i a k w q q k m e t s e k q a k k a q n m i n d a q
n k i a k n e d l k r d l e a l e k e
h p e g i y l s g a l l m f a g s k s y y l g a s s n e f r d f l p n h m q y t m m k y a r e h g a t t y d f g g t d n d p d k d s e h y g l w a f k k v w
g t y l s e k i g e f d y v l n q p l
y q l i e q v k p r l t k a k i k i s r k l k r k
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e k y e g g f k n i c l r t n d i e a
v k n k l q s e q v e v g p i q m e r d t h k d g k v k w q l l y i m n q d d d d d e i k p p f f i q w e e s d s m r i k k l q k y f q k q f s i e t v i k
s k n r s q t v s n w l k w f d m d i
v e e n d h y t d l i l k n d d i y f r i e d g k v s k y h s v i i k d a q a t s p y s i f i r g a i y r f e p l v
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s l e d k r q k f l t l t p k g h e l
y g i v c l d v q l q g a v v a k t n i s q d q m q e t i n v m n q i h e i l l k e a h n d
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k r l l f i g l i a l i i t q l i y f
i d g s l a f l i f v r l i n g i a t a v v t t a t g t i a a y v t p v n r k s e g i s l f s l s l v l g t a i g p f l g m l l i t k y a i n l l f i i c v i l
g i l g l i i s l f i k v d f e v t n
n k t e t n v i d k p r f s i h q f i a k e a i p v a v i m l l i g v t y a s i l t y l q a f a l e r h l v t a a s y f f i c y a i a s l i t r p i a g r l m d
d k n e n i i v y p a f i m l f l s f
v c l i s s y q s w l i l l a g a c l g l y g n l s s a m q s i a i k v s p p i k y i a t s t f y v g l d a g v g f g p s f l g l f t h m f s y s e i f g f
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g q k l y d a g l r r i n v s l d a i
d d t l f q s i n n r n i k a t t i l e q i d y a t s i g l n v k v n v i q k g i n d d q i i p m l e y f k d k h i e i r f i e f m d v g n d n g w d f s k v
v t k d e m l t m i e q h f e i d p v
e p k y f g e v a k y y r h k d n g v q f g l i t s v s q s f c s t c t r a r l s s d g k f y g c l f a t v d g f n v k a f i r s g v t d e e l k e q f k a l w
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r i g p l q i s d i a v l i a v s s p
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q n l t q i i e k s v t i d n v v l
v e g f k n a d f e k v v v y r n e e l q v l q q l s n v c y s i n v r e h e d f t a f e q w l l n k i k n d c d t q l t
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g t g i a q r d v t i e a v k p l l t
k e i e g f g e l f r y l s y e d v g t r a l l s r a v a g t i n n k l i f s i p g s t g a v k l a l e k l i k e l n h l i h e l t k
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p k v v a a k k h l l a l r s d v d i
d d y i a h v d y y f l e t h g q d v d v i i d a t n f e t r q l i n d f a y k h r i p w i y g g v v q s t y e a a f i p g k t p c f n c l v p q l p a l n
l t c d t v g v i q p a v t m a t s l
q l r d a m k v l t e q p i d t k i t y g d i w e g s h y s f g f s k m q r s a c t t c g d v p s y p y l n k n e q r y a t l c g r d t v q y e n a s i t h d i
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l f q d y q l f p n m t v y k n i t f
m a e p s e h i d q l i q t l n i d h l m k y p m t l s g g e a q r v a l a r a l s t k p d l i l l d e p f s s l d d t t k d e s i t l v k r i f n e w q i p
i i f v t h s n y e a e q m a h e i i
t i e
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r k q i e s a p v d v f m s a n t k
d v d a l k d k n k a h d t y k y a k n s l v l i g d k d s n y t s v k d l k d n d k l a l g e v k t v p a g y a k q y l d n n n l f k e v e s k i v y a k d
v k q v l n y v e k g n a k q g f v y

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k l i l r r a a q f l t y g d t i s i
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n v s y f n d r l n g c g g f i d i t
q s v k k i i f s g t f v a g s h v s c h n q r l n i e t e g q n q k f v s d v s h i d f n a q y s q s l e q e v y f v t d r a v f e l t n q g l k l i e i a p
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g r l a g n d e s l n l n l k d m f s
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g l f f f y e s n a f k n i s i f e v
i i m f f i g g v f s l l s t m v l y r f v v f s d q f e r f g s l t f f d a f l v g l v e e t g k a l i i v y f v n k l k t n k i l n g l l i g a a i g a g f
a v f e s a g y i l n f a l g e n v p
l l d i v f t r a w t a i g g h l v w s a i v g a a i v i a k e q h g f e f k d i l d k r f l i f f l s a v g l h g i w d t s l t i l g s d t l k i f i l i v v
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y i h g g f n a l q p s p f h w r l l
d k i t l s t l y e v v l p i y p k t p e f h i d d t f q a i q r v y d q l v s e v g h q n v v m g d g s g g a l a l s f v q s l l d n q q p l p n k l y l i
s p i l d a t l s n k d i s d a l i e
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g k m h g l n i n l g n i n d l q q g
i d r l i l v f n g f f i l c i v s l v i t i l t i v f n r t v l k v v n i l v l t i m l v i t l y f s y i i k a l a q e i a d a l k k y l n v p p d q v i t
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q v s l t d h a k g s e q d q e l f n
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l m t g f m l v n g i l i p i t a y l
f n k y s y r k l f l v a l v l f t i g s l i c a i s m n f p i m m v g r v l q a i g a g v l m p l g s i v i i t i y p p e k r g a a m g t m g i a m i l a p a
i g p t l s g y i v q n y h w n v m f
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r m k a p m l n l e v l k f p t f t l
t t v i n m v m m s l y g g m i l l p i y l q n l r g f s a l d s g l l l l p g s l i m g l l g p f a g k l l d t i g l k p l a i f g i a v m t y a t w e l t
k l n m d t p y m t i m g i y v l r s
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q y g g e q e g a m k v l l q f v n k l
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l i a m i i f t l a s l g i v f v h
n i w l m v a l r f l q g v t g g a a v i s r a i a s d m y s g n e l t k f m a l l m l v n g i a p v i a p t l g g i l n y s i w r m v f i l t i f g f v
m v i g s l l k v p e s l t v t n e
s s s g l k t m f k n f k i l l k t p r f v l p m l i q g m t f v i l f t y i s a s p f i i q k i y g m t a i q f s w m f a g i g i t l i s s q l t g y l v d
f i d s q k l m r v m t m i q i i g v
i l v t i v l l n h w n f w i l a i g f i i l i a p v t g v a t l g f t i a m d e s s s g r g s s s s l l g l v q f l f g g i a s p l v g v k g e d n p i y i
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k m a d q i f l n k q r v l e k v k v
l d k e f d i v l j e g a g g i g v p l y e g t d d f y m t k d l i n d c a d c v i s v l p s k l g a i s d a i v h q d y v n q n v s a s n f l i m n r y t d s
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y a r a d e q q i a i e m a a s g
l d l l e k e e r n p l y t s s y g t g e l i k d a l n h g a k t i i l g i g g s a t n d g g t g m l s a l g v k f t d v n g d l l q m n g a n l a h i a q i d
i t n l d t r l k e v t f k v a c d v
n n p l l g e h g a t y i y g p q k g a d a k m i p k l d f a m s h y h d k i k m c t g k s v n q i p g s g a a g m g a a l l a f c e t t l t k g i d v v f d
i t d f h q r i k d a d l v i t g e g
r m d y q t i f g k t p v g v a l a a k q y h i p v i a i c g s l g e n y q h v y d f g i d s a y s i i s s p s t l e d v l q n s e q n l l n t a t d i a r i l
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i v a i f v t r a l l n n d s d k v s
n d p e v s q n y k k q v e n q d g q i n q q v d n a k e n i k n n q k t d d i i k n l q n q i d n l k q e q n k a d s k l t q f y q d q i n k l t e a n n a
l k n n a s q g k i e s m l n d i n t
k f d s i k s k l e s l f k d d n g g a n
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i a v s i l i i f i l v s g l s m f v
d q l p l f l t l r f i q g l t g g g v i v i a k a s a g d k f s g n a l a k f l a s l m v v n g i i t i l a p l a g g l a s v a t w r s i f t i l t i v a l
i l i g v a s q l p k t s k d e l k
q v n f s v i k d f g s l l k k p a f i i p m l l q g l t y v m l f s y s s a s p f i t q k l y n m t p q q f s v m f a v n g v g l i i v s q v a l l v e k
l h r h i l l i i l t i i q v v g v a
l i i l t l t f h l p l w l l i a f f l n v c p v t s i g p l g f t m a m e e r t g g s g n a s l l g l f q f i l g g a v a p l v g l k g e f n t s p y m i
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m e y q l q q l a s l t l v g i k e t y e n g r q a q q h i a g f w q r c y q e g v i a d l q l k n n g d l a g i l g l c i p e l d g k m s y m i a v t g d n s
a d i e k y d v i t l a s s k y m v f
e a g g s v p k a v q q k m e e v h h y i h q y a e t v k s a p f f e l y q d g d t t s e k y i t e i w m p v k g
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m t t q d i w n n y k s m s q l v g
k p f i v n e w a i i g h t g w y d y s f a a q r f s l d e l q r g k h y g a t w q d k e r i s w g i s d q n l s k i a a e q v k k d i l e v g n r r v i l v
t h v v t h p d f i v p m p h r i f d
f y n a f i g t s d f n p l y a m f d i p y s i m g h v h f r k s v m d d g r c y l c p c l g y p r q w r s e d i y q e i n e t i q i e i
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r k p i l l m s m a l v f a t v v g v
g y f i h w i w p a l p m p a a f a i a a i l c p t d a v a s a i t r g k l l p k g s m t i l e g e s l l n d a a g i i s f k i a v t a l v t g t f s l f q a
v e q f i i s t i l g v l i g a i i g
f v v v r i r i d l t a n k g l k d n n t l t f i q l l t p f v v y f l a e e v h a s g i i a v v i a g l i h g l e r d r l i r a q t e l q m n y h q i w n t f
s y a l n g f v f v v l g f m i p t v
v i d i f q t e p d n f s f l i v i t i l i a i a i y a c r f v w v y f w y k d f y f p k n i q s y l d e e h d s h e t p p s r v r y a f i m t m c g i h g t i
s l s m a l t l p f i i t k g q a f e
y r n d l l f i a s f m v l i s l i l a q i v l p l i t p s a e d t t f k g m t y q s a k i f i v q k v i q h f k n e s k k d k n d t n y r p v l n q y y g e l
l f l l n s e p d n q n t k e l k r l
e d i a k v i e t s t l e r l i d k g k a t y q d i n n y r n i v e l t e t h r t a s f v e k f a n f f k m l w l r l k a m k h y k a l n k e s k k q e f e n s
f k d v q k i m r i v n h n i l r l
k e e q n s t n v l e v s l v i n h y d m s r s l k w r a q r r k e r q e n s n q i p q a m f h n h k l e a l y l q r h l l d e l i r k n k i n n i v a a q
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y r q i i y a y p k g g g a y m v s k
t n l g e k w g l l a g g s l l v d y i l t v a s i s s g a d a f v a a f p s l y g h k v l i a c l l v l f i l i l n l r g l t e s a t v l s y p v y l f i i
g l v l i l i f i g t f r v a t g d i q
p h m h a s v g t a v p g v l f l l k a f s s g a s l t g v e a i s a v t n f r e p s a n n a v k t l i a m g s i l a f l l v g i v g l a y v y g i m p
q t e t t v l s q l a m q i f g d n a

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q l f v t t n q d i k l t t h d e s t
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dndivpinl kvkehpdfs
l n g e k g v v a l t g y e v l g y r t n e l t s k d y t k n k k a e e v v r a m k r d g w s f a s h y g h i n f e k t s l e g i k r d t k r w k d e v e
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v v a g y v i t l n w g t f i w a v t
n g h v l q t s l g y i n p l v s i l l a l i f l k e r f n k f e w l a i l f a f i g v l y m t l k i g e f p i v s i l a l s f g t y g l l k k v v h i d a
i s s i t i e c i v t a p a g i y v
i y l w q q h q m s f g f n m s s f w l l f s g a i t a v p l i l f s a g a k r i p l s l i g f i q y v g p t i m f v l g i f v f k e p f s i d q l i t f i f i
w t g i v l y s l s q y i k l k k h p
v a k t l s n d
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k c q q m i d f i v a t a t l d i e l
l r s l v t p q f i w s v p g h f d i h g p q i l i q e l s e h q d h i e s i n i q s i i t h g h l g a l h g t q i l k n g t q i h f a d f f e f e k h k k d a
k v s k v t s y i v i d
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k l l q q r k d p s g v g f y f s i g
h s s v v f l m a v f l g v s v k w a k d e l p h f q d i g g t i g t l v s g f f l v l i g v l n l i l i s l i n l f a k l r r e h i e e a e v d a l l e s r
g f v s r f v g p y f k l i t r s w h
v l p l g f l f g l g f d t a s e i a l l a l s s g a s q q a i s f i g i l s l p i l f a s g m s l l d t l d g v m k y a y n w a f f n p i r k i y n i t i
t a i s v m a a l v i g m i e l l q i
l a d k l d l h g a f w a f i s s i e f d y l g y i l v a l f l i t w l i s s l i w k f g r i e h k w s k
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f q k g f n p q l m s a t i h t p n g
g r s l n g s h a s l v v p i n n v f y v t d v g f g d l p l h a m p i t s s d q t q p v t d i s g t f r a i f e n e m e l f y v q k f e n d s w n t k y e a
e f k p k q i e d f n s n i e y n q t
n p d s i f v k h l l i t m p q s f g r a t m s e n h l t l t r n g s s e k f d v t k d n y k h f s e k y f g l n v t i n r i e n n s k t
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g l l v i f n v g a s a f f i y m f
a f w f i f s s i a g l f t f s g s g n l k l i s v i f n v l g i v f g v i l l f n p l m g i v f i s t m i a i a f v f i g v i y i v d a l a
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m t f n h i i f k n l r q n l k h y a m y l f s l f f s i v l y f s f t t l q f t k g v n n d d s m a i i k k g a l v g s i f l f i i v i f l m y a n h l f v
k r r t r e f a l f q l i g l t r q n
i l k m l a e q m i v f l i t g v v g l c g i a g a q l l s i v s k l m s l s i n l s i h f e p m a l v l t i l m l i i a y v l i l f q s s l f l k r r s
i l s m m k d s i k t d v t t a k v t
v k e i s g v l g i a m i a l g y y m a t e m f g t f k a l t m a m i s p f i i l f l t v a g a y l f f r s s v s l i f k t l k k s k n g r v s i t d v v f t
s s i m y r m k k n a m s l t i i a i
i s a v t v t v l c f a a l s k s n t d q t l t s m a p n e f n v v a s q d a q q f e s k l s q q h i t f t k n y e t i t v n n v k d q v i t l e n g s d g
h t n s i l s a n n k v t g n n a i i
t n t k s l p n v i n i h l n k d l v v k g t k n e t f r v t q e d k d k v y p l n l s f n s p v i e v s p e k y q q l k t q n n v h t f y g y d i k a t s q k
e k a q a i a k q f g d k v i t y d e
m k k e v d a t n g i l i f v t s f l g l a f l v a a g c i i y i k m d e t e d e l s n f r i l k r i g f t h t d m l k g l l l k i t f n f g l p l l i a i l
h a v f a a i a f m k l m g n i s f m
p v i i v i v y t l i y i v f a l i a f v h s n k l i k k t i
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w t y v m l i f m t l a a i l m g p l
v v y w n w t w g i t v a i i m g i g f y a s m k i e d l k k v h k m d n y d r i v a f m n g k d p s e v q t t k a r n t m t n a l s i i s v v g t l s l i i f
l s v y l a n k f l
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m l q m t h m w l l s i i v g f l s w
f i s a v c i f e a v e f i a q k r l e k h s w k t g k s n s k
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v f l t s l y i k h k g y r k g a i f
t v v c w f v i s l a i f s i r h l
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g f p s i p l k i m f p q l k v t i v
d s l n k r i q f l n h l a s e l q l q d v s f i h d r a e t f g k g y r e s y d v v t a r a v a r l s v l s e l c l p l v k k g g q f v a l k s s k g e e
l e e a k f a i s v l g g n v t e t h
t f e l p e d a g e r q m f i d k k r q t p k y p r k p g t p n k t p l l e k
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Tsompanidou_et_al_Supplemental_FASTA_File

sika

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Tsompanidou_et_al_Supplemental_FASTA_File

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Tsompanidou_et_al_Supplemental_FASTA_File

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a f k n e s e a r l n l y s k l d l i
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y s y e d k d a f e q q w s v l k d d
d s a h f t l r k k i i l t l f v l p f p i m v w g v m t q g w w f p v m a s a f l i f t i i m f i a g t g k s g l g e k g t v d a f v n g a s s l v g v s l
i i g l a r g i n l v l n e g m i s d
t i l h f s s l v q h m s g p l f i i v l l f i f f c l g f i v p s s s g l a v l s m p i f a p l a d t v g i p r f v i v t t y q f g q y a m l f l a p t g l
v m a t l q m l n m r y s h w f r f v
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t t y l n t f f s n i t f i n n l i t
p i w i l c l v g i m t h m i i f s i k y l k d f s l e n v y p s w t v l f i g i a i a g l t v p v s g y f f i g q l t v i y g f v a t c i v l p i v f k r l k
a f p l q t s i k p n t s t i c a p f
s l v a a y v i a f p k a n a f i v i i l l l l a q i f y f y i i i q l p k l l k e p f s p v f s a f t f p l v i s a t a l k n c l p v l m f p v i w k g l l
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v d g h r a d v l f r n g l a e a k i
k y f d q t l e t i v e l w k r h d l y i v t n g v t e t q r r l n q t p l h k y i k k i f i s e e t g y q k p n p e f f n y v f n d i g e d e r q h s i i v
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g s k v v i g g q q a g l f g g p l y
t f h k i f s i i t l s k e l d t h k q q v p v f w i a g e d h d f d e v n h t f v y n e n h g s l h k v k y h t m e m p e t t v s r y y p d k a e l k q t
l k t m f i h m k e t v h t q g l l e
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t n v h l f l h d e n m r q l v s y d
g k y f k l n k t d k t y i k e e i i n i a e n q p e l f s n n v t r p l m e e w l f n t v a f i g g p s e i k y w a e l k d v f e l f d v e m p i v m p r l
r i t y l n d r i e k l l s k y n i p
l e k v l v d g v e g e r s k f i r e q a s h q f i e k v e g m i e q q r r l n q d l l d e v a g n q n n i n l v n k n e i h i q q y d y l l k r y l l n i e
r e n d i s m k q f r e i q e t l h p
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e l t q i l k d l n i e k v d g i y y
d l g v s s p q l d i p e r g f s y h h d a t l d m r m d q t q e l t a y e i v n n w s y e a l v k i f y r y g e e k f s k q i a r r i e a h r e q q p i t t t
l e l v d i i k e g i p a k a r r k g
g h p a k r v f q a l r i a v n d e l s a f e d s i e q a i e l v k v d g r i s v i t f h s l e d r l c k q v f q e y e k g p e v p r g l p v v p e a y t p k l
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v d k k e t a k k l s t v i d m k p e
e i e k r l s q k k a f q i e f g r k g t n l t y q d k l k i e k m n l p g i s l l p e t e r f y p n g n f a s h l i g r a q n p d t g e l k g a l g v e k i
f d s y l s g s k g s l r y i h d i w
g y i a p n t k k e k q p k r g d d v h l t i d s n i q v f v e e a l d g m v e r y q p k d l f a v v m d a k t g e i l a y s q r p t f n p e t g k d f g k k w
a n d l y q n t y e p g s t f k s y g
l a a a i q e g a f d p d k k y k s g h r d i m s r i s d w n r v g w g e i p m s l g f t y s s n t l m m h l q d l v g a d k m k s w y e r f g f g k s t k g
m f d g e a p g q i g w s n e l q q k
t s s f g q s t t v t p v q m l q a q s a f f n d g n m l k p w f v n s v e n p v s k r q f y k g q k i a g k p i t k d t a e k v e q l d l v v n s k k s h
a a n y r i d g y e v e g k t g t a q
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y s k v p d v e g q d k q k a i d n v
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f v t i g f g l i g f i d d y i i v v
k k n n g g l t s k q k f l a q i g a i i f f v l s n v f h l v n f s t s i h i p f t n v a i p l s f a y v i f i v f w q v g f s n a v n l t d g l d g l a t
g l s i i g f t m y a i m s f v l g e
t a i g i f c i m l f a l l g f l p y n i n p a k v f m g d t g s l a l g g i f a t i s i m l n q e l s l i f i g l v f v i e t l s v m l q v a s f k l t g k
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k v l n h y t e k e q k v v k y m r s n g r y k p y n v i e r l q g d l y q a s i k q r s e r q k q r n i a i e n s k i a r v n a y h q s s h v k v v
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detetkev v v k r g e y k e n p
q s g k v q l v y n e h e l i e v p i k p s d r l k a r d m l g k y y k l f t d k h d i n g n v p i f i n i g e w d g d d e e l d k a v k d v s n a n p n h t
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k t i f m s t h i i s d l e k i a d y
i i h l s d g e v i l n g s k e q l l q r y q v v s g a i e d l d d e l a s l l i y e e h k r t g f i g l t e h a q v f k e i l g h k v n i t t p s i e n l m v
y l e k r k p k y h e n i k l m e e g
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k i k g k w s y l y r a i d a e g h t
l d i w l r k q r d n h s a y a f i k r l i k q f g k p q k v i t d q a p s t k v a m v k v i k a f k l k p d c h c t s k y l n n l i e q d h r h i k v r k t r
y q s i n t a k n t l k g i e c i y a
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d e i k e l s g h v f i f g g q t l y
e a m i d q v d d m y i t v i d g k f g g d t f f p p y t f e n w e v e s s v e g q l d e k n t i p h t f l h l v r r k g k
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y e d l e l i n y e s h p a i k a p i a v
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h i a i s e d n l l t s d n p v i a t
d n w n q i m l p i t p n i l i e f q e d k i n s s n d l r v i l k k k
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i n s i k s d l w s a f y i f t a f n
v v y a i f l f p l f i k e k k y e v e l t h n n k m k y i v r d r v e d k d d g k l i y v d e d e n k e y e e n i i d i k k r e s r v t f i p h v a l f

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i y r d i k p n r p s r n k l e p i m
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k t r t k l i q n i l n q f n l k l v
d k e i t a d v k n
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k r h q n a q a k q i r l f n a e t
s q l i n k v n s k n i e s m q n k i f k s y e g i n k i f e t d n v r i p e t l l d i k l e m l d l m h k y q v k i e d e k i i r r e e r a r l k e i e q a e
k e m e k k l k e l d k d i r h h n n
e i k k l t m y l n n t d l q e k e l y i e k i r e l d q s l k n l n s e r e n v e d r k d n a q s g f v y i i s n i g s f g e n v y k i g v t r r l e p m d
r i n e l s s a s v p f e f d v h a l
i f s e n a f e l e n k l h e y f k k y k v n k v n g r k e f f k v n e i k d k v l s e h n s t v q f i d e p k a i q y r e t l r l t s l
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k v g d r i t a h p n g d k g n g g i
y k i k s i s d y p g n e d i s v m n i e e q a v e r g s n g f n d n v q a f k f a k d a k v d d k i k v i g y p l p a q n s f k q f e s t g t i k r i k d
n i l n f d a y i e p g n s g s p v l
n s n n e v i g v y g g i g k v g s e y n g a v y f t p q i k d f i q k h i e q
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n r h v v k d v q v g s t v l a h p n
g e n d t g g y y k v k k v i p y a g s a d l a i v e v e e d s v y p k n k k f s e n t e i l t l a s e a k a n e r v a i v g y p a p y k n k h h m y q s t g t
v l s i n g d k l v s d a f a e g g n
s g s p v f n n k n e v g v l y s g d q i g h s k k e s y s v l t p e i k k f i a d n t e k
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q v g s t i l a h p n g e n d t g g y
y k v k k i i p y a g s e d l a i v q v e e d s v y p k n k k f s e n t e v l k f a s g a q v n d r l s i v g y p n p y k n k h h m f e s t g k i l s i d g n q
m t s d a f a e g g n s g s p v f n s
n h e v i a i a y a v d v k n d a t k k s y l v y f t p e i k k f i a d n t e k
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e i g e h i i a h p n g e y n n g g f
y k v k k i v r y a g k e d i a l h v e d k a f h p k n r n f k d y t g i l k i a s e a k e n e r i s i v g y p e p y i n k f q m y e s t g k v l s v k g n m
i i s d a f v e p g n s g s a v f n s
k y e v v g v h f g g n p a n k s t k g y g v y f s p e i k k f i a d n l d k
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k v g d e i k a h p n g f y n n g g g
l y k v t k i v d y p g k e d i a v v q v e e k s t q p k r k f k d f t s k f n i a s e a k e n e p i s v i g y p n p n g n k l q m y e s t g k v l s v n g n
i v s s d a i i q p g s s g s p i l n
s k y e a i g v i y a g n k p s g e s t r a f a v y f s p e i k k f i a d n l d k
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s i a n d l r g n m d a s e f r n y i
l g l i f y c f l s e k a e q e y a d a l s g e d i t y q e a w a d e e y r e d l k v e l i d q v g y f i e p q d l f s a m i h e i e t q d f d i e h l a t a i
r k v e t s t l g e e s e n d f i g l
f s d m d l s s t r l g n n v k e t a l i s k v m v n l d d l p f v h s d m e i d m l g d a y e f l i g r f a a t a g k k a g e f y t p q q v s k i l a k i v
t d g k d k l r h v y d p t c g s g s
l l l r v g k e t q v y r y f g g e r n n t t y n l a r m m l l h d v r y e n f d i r n d d t l e n p a f l g n t f d a v i a n p p y s a k w t a d s k f e n
d e r f s g y g k l a p k s k a d f a
f i q h m v h y l d d e g t m a v l p h g v l f r g a a e g i r r y l i e e k n y l e a v i g l p a n i f y g t s i p t c i l v f k k c r q q d d n v l f i
d a s n d f e k g k n q n h l s d a q
v e r i i d t y k r k k t i d k y s y a t l q e i a d n d y n l n i p r y v d t f e e e a p i d l d q v q d l k n i d k e i a e i e q e i n a y l k e l g v
l k d e

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Tsompanidou_et_al_Supplemental_FASTA_File

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l s k k l s g e a i k i f e q l s s k
f s i d f d e s q s i g k r y r r q d e i g t p y c v t f d f d s l e d n q v t v r d r d s m e q v r m p i s e l e a f l t e k t k f
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v e a v k e l g d r v n v a d i e a
t q s n s n v q i a s d d l q m i e m h e l i q e f y y a l t k t v e g e q a l t y l q e r g f t d a l i k e r g i g f a p d s s h f c h d f l q k k y d i
e l a y e a g l l s r n e e n f s y y
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l k n v v a t m g t q l s d e h i t f
i r k l t s n i l m f d g d f a g s e a t l k t g q h l l q q g l n v f v i q l p s g m d p e y i g k y g n d a f t a f v k n d k k s f a h y k v s i l k d
e i a h n d l s y e r y l k e l s h d
e i s l m k s s i l q q k a l n d v a p f f n v s p e q l a n e i q f n q a p a n y y p e d e y g g y i e p e p i g m a q f d n l s r q e a e r a f l k h l m r
d k d t f l n y y e s v d k n d f t n
q h f k y v f e v l h d f y a e n d q n i s d a v q y v n s n e l r e t l i s l e q y s l n d e p y e n e i d d y v n v i n e n g q e t i e s l n h k l r e a
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h p e d v i d n i t i c g m g g p l i
a k i l k d g q d k l s q h p r l i l q s n i q t e n l r q t l q q l n y e i d e i i m e e k g h i y e i v v a e y s t q l i e l s s d e l k f g p k l l n n
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g l i i r k l i q h d i n l i a m h t
n l d v n p h g v n m m l a k a m g l k n i s i n n q a d v y y k v q t y i p k d n v g p f k d k l s e n g l a q e g n y e y c f f e s e g r g q f k p v g e
a n p t i g q i d k i e y v d e v k i
e f m i d a c q k s w a e q l i k q y h p y e t p v f d f i e i e q t s l y g l g v m a e v d n q m t l e d f a a n i k s k l n i p s v r f v g e s n q k i k r
i a i i g g s g i g y e y q a v q q g
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p e t f n l g v d f l q q e i e r t q
a i g a k d i v l h p g a h v g a g v d a g i n k i e g l n e v l t n d n n v r i a l e t m a g k g t e i g r s f e e l a r i i d g v h n n e r l s v c f d t
c h t h d a g y n v k e d f d g v l n
e f d k i i g v d r i k v v h v n d s k n d r g a q k d r h e n i g f g y i g f d a l n y i v h h d s f k d i p k i l e t p y v g e d k k n k k p p y k l e i e
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q v l a i f r e m n a g t v l d p q m
i k n e d v s e k e y a a v s q q l s k l p g v n t s m d w d r k y p y g d t l r g i f g d v s t p a e g i p k e l t e h y l s k g y s r n d r v g k s y l e y
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s p a q k l r r g l n q v g l g v k t
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l n k v n n t e k e i k q i q e g f k
m a f n d k d g t g y v s f k d t v v p t a g t g t a e v f a n g e p r v n s t y i g y a p i d d p k l a f s i v y t n q p v p p p w l t g g d l g r d v i n
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q m t f k e i f n l k d i d v d k k g i y y p t s k g e t t n n l d l i v v p g v g f q d d g y r i g y g g g y d r f l a n y q t k t i s l l y d f q i t s f
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v v a g y v i t l n w g t f i w a v t
n g h v l q t s l g y i n p l v s i l l a l i f l k e r f n k f e w l a i l f a f i g v l y m t l k i g e f p i v s i i l a l s f g t y g l l k k v v h i d a
i s s i t i e c i v t a p a g l i y v
i y l w q q h q m s f g l n m s s f w l l f s g a i t a i p l i l f s a g a k r i p l s l i g f i q y v g p t i m f v l g i f v f k e p f s i d q l i t f i f i
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g t v k i e g y s k t v s l t v k g e
q v g q a v i t p d g a t i t f n d k v e k l s d v s g f a e f e v q g r n l t q t n t s d d k v a t i t s g n k s t n v t v h k s e a g t s s v f y k t g d
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r y v s k d i t i k d q i q g g q l d l s t l n i n v t g t h s n y s g p n a i t d f e k a f p g s k i t v d n t k n t i d v t i p q g y g s l n s f s i n
y k t k i t n e q q k e f v n n s q a
w y q e h g k e e v n g k a f n h t v h n i n a n a g i e g t v k g e l k v l k q d k d t k a p i a n v k f k l s k k d g s v v k d n q k e i e i k t d a n g i
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d y t t d i n g t t i t n k y t p g e t s a t v t k n w d d n n q d g r p t e i k v e l y q d g k a t g k t a t l n e s n n w t h t w t g l d e k a g q q
v k y t v e e l t k v k g y t t h v d
n n d m g n l i v t n k y t p e k p n k p i y e k p k d k t p p t k p d h s n k v k p t p p d k p s k v d k d d q p k d n k t k p e n l k e l p k t g m k i
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l y k n r e k i k d n v s i i f a s v
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t s r p t v v s p k y k d i k k a v k
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v g t a t l l l k s d n i i r v k h d
i i a a i f y v s n w w y i a k d v n y f e q f s f m p l k h l w s l a i e e q f y i f f p v i l v t l l l t i k k r y k i g f i f w g v s i i s l g l m m f i
y s i n g d h s r v y f g t d t r l q
t l l l g v i l a f l w p p f k l k n d p p k v v k y v i d s i g s l s f i v l i l l f f i i n d e t n w i y d g g f y l i s i l t l f i i a s v v h p s t w i
a k i f s n p v l v f i g k r s y s l
y l w h f a v i s f v h s y y v d g q i p v y v y f i d i s l t i i f a e l s y r f i e t p f r k e g i k a l n w r p s y i p q f i r m a i v v t l l i p f m l
i l v g a f n k y g k d i i g e k a n
s f d t t i e d n y l m r i a p i d n i h i d g l v s e k k k e s s d v y n n i k p l l i g d s v m v d i g e s f k s s v p k s r i d g k v g r q l y q t l p l
v k a n y s q y k k s s d q v v l e l
g t n g d f t v k q l d d l l n q f g k a k i y l v n t r v p r i y e a n v r l l a d a a k r k s n v t l i d w n k r s q g h s e y f a p d g v h l e y k g v
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l a t d k k i r p k a y i a s w k d i
e p a k k i e f k i k k g i k w h d g n e l k i d d w i s y i e v l a n k d y e g a y p s v e n i q g a k d y h e g k t d h i s g l k k i d d y t m q v t f d
k k q e n y l t g f i t g h l l s k k
y l s d v p i k d l a k s d k i r k y p i g i g p y k v k i v p g e a v q l v k f d d y w q g k p a l d k i n l k v i d q a q i i k a m e k g d i d v a n d a
t g a m a k d a k s s n a g l k v l s
a p s l d y g l i g f v s h d y d k k a n k t g k v r p k y e d k e l r k a m l y a i d r e k w i k a f f n g y a s e i n s f v p s m h w i a a n p k d l n d y
k y d p e k a k k i l d k l g y k d r
d g d g f r e d p k g n k f e i n f k h y s g s n p t f e p r t a a i k d f w e k v g l k t n v k l v e f g k y n e d l a n a s k d m e v y f r s w a g g t d p
d p s d l y h t d r p q n e m r t v l
p k s d q y l d d a l d f e k v g i d e k k r k d i y v k w q k y m n d e l p g l p m f q g k s i t i v n d k v r n l d i e i g t d q s l y n l t k e a
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e d m m n m s d d d a t d q f d e q v
q e l l a q t l e g e d q l e e l f e q r t k e k e a g s k r q k s s a r k n t r t i i v k f n d l e d v i n y a y h s n p i t t e f e d l l y m v d g t y y
y a v h f d s h v d q e v i n d s y s
q l l e f a y p t d r t e v y l n d y a k i i m s h n v t a q v r r y f p e t t e
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d a f i i i v t k p n n q n c t p s r
e h l h e s l i e q v l y h c q e h g e n i n p h i v t r l d h n t t g i v i f a k y g h i h h l f s k v n l k k i y t c l v y g k t h t s g i e a n i r r s
k d s i i t r e v a s d g y a k t s
y e v i n q n d k y s l c k v h l h t g r t h q i r v h f q h i g h p i v g d s l y d g f h d k i h g q v l q c t q i y f v h p i n k n n i y i t i d y k q l l
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y n t r p v k a g l r q i v d v t k r
h l l l f p g i l l g g a a i a a l v p i l p t y a t k v i n v s t i e y t v a i i g g i g c a v s m l f l s k l i d n r s r n f m y g v i l s g f i l y m i
l i f t l s m i v n i h i w w i a l
a i g l m y g i l l p a w n t f m a r f i k s d e q e e t w g v f n s i q g f g s m i g p l f g g l i t q f t n d l n n t f y f s a l i f l v l a v f y g s y f
i a n r e k a k
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y l i y m s i k n l w q f f k h p e i
e s p e a g d d h h y d e s g e e i k a s n k s f w g t v l k i e f a d i a f a i d s m l a a l a i a v t l p k v g i h f g g m d l g q f v m f l g g m i g v
i l m r y a a t w f v e l l n k y p g
l e g a a f a i v g w v g v k l v m v l a h p d i a v l p e h f p h g v l w q s i f w t v l i g l v i i g w l g s v v k n k k s h k
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n k a e e s k s n q d s k s a y n r d
h y l t d d v s k k q n s l d s v d q d t e k s y e q n s e a t l s t k s t d k v e s t e m r k l s s d k n k v g h e e q h v l s k p s e h d k e t r i d s
e s s r t d s d s s m q t e k i k d
s s d g n k s s n l k s e v i s d k s n t v p k l s e s d d e v n n q p l t l p e e q k l k r q s q n e q t k t y t y g d s e q n d k s n h e n d l s h h t
p s i s d d k d n v m r e n h i v d d
n p d n d i n t l s l s k i d d d r k l d e k i h v e d k h k q n a d s s e t v g y q s q s t a s h r s t e k r n i s i n d h d k l n g q k t n t k t s a n n
q k k a t s k l n k g r a t n n n y s
d i l k k f w m m y w p k l v i l m g i i l i v i l n a i f n n v n k n d r m n d n d a d a q y t t t m k n a n t v k s v t v e n e t s k d s s l p k
d k a s q d e v g s g v y k k s g d
t l y i v t n a h v v g d e n q k i t f s n n k s v v g k v l g k d k w s d l a v v k a t s s d s s v k e i a i g d s n n l v l g e p i l v v g n p l g v d f
k g t v t e g i i s g l n r n y p i d
f d k d n k y d m l m k a f i d a s v n p g n s g g a v n r e g k l i g v v a a k i s m p n v e n m s f a i p v n e v q k i v k d l e t k g k i d y p d v g
v k m k n i a s l n s f e r q a v k l
p g k v k n g v v v d q v d n n g l a d q s g l k k g d v i t e l d g k l l e d d l r f r q i i f s h k d d l k s i t a k i y r d g k e k e i n i k l k

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s k l p w k d l n i d v v l e c t g f
y t d k d k a q a h i e a g a k k v l i s a p a t g d l k t i v f n t h q e l d g s e t v v s g a s c t t n s l a p v a k v l n d d f g l v e g l m t t i h a
y t g d n t q d a p h r k g d k r r
a r a a a e n i i p n s t g a a k a i g k v i p e i d g k l d g g a q r v p a t g s l t e l t v v l e k q d v t v e q v n e a m k n a s n e s f g y t e d e i
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g d i k s v e d k g e y k v i n f g n
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w s h t l k s i n e k d g k v g s v t l t s t k d g s e e t h e a d g v f i y i g m k p l t a p f k d l g i t n d v g y i v t k d d m t t s v p g i f a a g d v
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h l e d s f y e l s q l n i e v n e p
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n l l a m c y l y l g e y d t a k a l
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i q m y n a l a y n y y l g e e d e
s h y y w d k l k q i s k v e i g h a p w v i e n s k e v f d q h i l p l l q s d d s h y r l y g i f l l d q l n g k e i v m t e s i w q v l e n l n n y e k l
y l t y l v q g l t l n k l d f i h r
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g v t p l i f p g d v i s l v p q n k
v k q t k a v k s p v r k a s q a k k v v k q p v q q a s k k v v k q a p k a v t k t v n v a y k p a q v q s v p t v p a h n y n k s v a n r g n l y a
y g n c t y y a f d r r a q l g r s i
g s l w g n a n n w n y a a k v a g f k v d k t p e v g a i f q t a a g p y g h v g v v e s v n p n g t i t v s e m n y a g f n v k s r t i l n p g k y n i
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y v l g l v d d i y d l k p y i k l a
g q i a a l v v a f y g v t i d f i s l p m g t t i h f g l s i p i t v i w i v a i t n a i n l i d g l d g l a s g v s a i g l i t i g f i a i l q a n i f
i t m i c c v l l g s l i g l f y n
f h p a k i f l g d s g a l m i g f i i g f l s l l g f k n i t i a l f f p i v i l a v p f i d t l f a m i r r v k k g q h i m q a d k s h l h k l l a l g
y t h r q t v l l i y s i s i l f s l

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m l r k q r f k c k t c e r y f t a e
t p e v d k y c f i s k k t r s a v l n k a a e i r s e k s i a k s c s v s a t t v s r i d e a a q s l h q s p y s a l p e h i m m d e f k s v k n v s g m
s f i y a d a q t h h i i d i v e d r
r l s e l k k y f y r f s l k a r k r v k t v s i d m h e g y m t l i k e m f p n a k i v i d r f h i v q l l n r a l n g i r v t v m n e l r a t n q p l y n k
f k r y a k l l l k p e e d l e a f e
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n t f d y y n l s n g p l e g i n n k
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v a a r e a v k d a q l d i n e n t a
d r i g v w i g s g i g g m e t f e i a h k q l m d k g p r r v s p f f v p m l i p d m a t g q v s i d l g a k g p n g a t v t a c a t g t n s i g e a f k i v
q r g d a d a m i t g g t e a p i t h
m a i a g f s a s r a l s t n d d i e t a c r p f q e g r d g f v m g e g a g i l v i e s l e s a q a r g a n i y a e i v g y g t t g d a y h i t a p a p e g e
g g s r a m q a a m d d a g i e p k d
v q y l n a h g t s t p v g d l n e v k a i k n t f g e a a k h l k v s s t k s m t g h l l g a t g g i e a i f s a f s i k d s k v a p t i h a v t p d p e c d
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k v k a l l y d e r g v t p e k i r n
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s g l l a e d f s e i e n h y v g p t
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h i q l k k t m f g s k l n v v v s s
y i a t f i m p k f l k s f f n e h p f i d v s l q v k n e i e k d i n n h t y d i g i s r n q p k l r e v h s e k v c e g k i v l i a p n k e n y l l t e
a s l f e k y k i i s d n h p e y w s
s l k n n i l n i y e k a q f l s i n d v h t s i k l i e m n q g i s f l p i y i t t n s n y n i s v i n t k i l q a p i s f t y i y s k k e s p e i l a f i k
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y g q y i s q q a n q l i t k a e s y
m k e y e d e y i s m e h i l r s a m d i d q t t k h y i n n k v e v i k e i i k k g r g g n h v t s q n p e v n y e a l a k y g r d l v e e v r q g k m d p v
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r y i t d r f l p d k a i d l v d q a
c a t i r t e m s n p t e l d q v n r r v m q l e i e e s a l k n e s d n a s k q r l q e l q e l a n e k e q a a l q s r v e s e k e k i a n l q e k r a
q l d e s r q a l e d a q t n n n l e
k a a e l q y g t i p q l e k e l r e l e d n f q d e q g e d t d r m i r e v v t d e e i g d i v s q w t g i p v s k l v e t e r e k l l h l s d i l h k r v v
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y s v i l l d e v e k a h t d v f n v
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n n q a p k g y i a n q s v t a n t e
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g k k s d s s d v k t t t e s v d v p
y t g k n d k s q k v k y i k d k d n d g s t e k g s f d i t s d q r i d i p l r i e k g t a s y i v k v d g k t v a e k e v s y d d i
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d i n f q l y h y a q e n a e y k g m
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i k r l n f y d y l l l n s d g l t d
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a v e i a k e r g g y h n g n v v n g i l r t m m r s d l p d f n e i a d p k k r m a v e y s m p k w i i d h w a t h y g l e e t e t i l q s f l e t t s t t v
r a n l t r a s l d d i e i k l q d e
g y d v e k d h d l p y c l h i g g q p i h s r s f k d g f v s i q d k s s m f v a h i m n v d r h d h v l d a c s a p g g k a c h i a e v l m p e g q v g a
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e q l e n e n v i y t f l k n n k n f
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e p g m n v k i k l n e e n e i t h i
i l d d h h k f q q i e a i e v k k c d f k d d l f i e g i t a y d n e r h h f k i a r k s f f v e n g s l v q i a p r d r q f a h k k p w p k f l t l f a g p
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s e t k y v l g f q p a s e h t l f k
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n w s r p e s e v n y i m n l p v n f
l k t f l s e l i e k n v k v e t i g f t d k l p k s t i e a i n n a k a k t a n t g l k l i f a i n y g g r a e l v h s i k n m f d e l h q q g l n s d i i
d e t y i n n h l m t k d y p d p e l
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t c f d h n y p y l l k e t y n y p i
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h y p k s t l a l r n k i e e k g l v
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y p v s v d a k h g k n l k k v e a a
a i k a t a e k f e r e k a g l k p r a i r a m i v g i p n v g k s t l i n k l a k r s i a q t g n k p g v t k q q w i k v g n a l q l l d t p g i l w p k
f e d e e v g k k l s l t g a i k d s
i v h l d e v a i y g l n f l i q n d l a r l k a h y k i e v p e d a e i a w f d a i g k k r g l i r c g n e i d y e a v i e l i y d i r n a k i g n y c f

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g g t s g l l a n a l n k a a e e y h
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g i l g l i i s l f i k v d f e v t n
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s l e d k r q k f l t l t p k g h e l
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e k y e q g f k n i c l r t n d i e a

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i v k f g e s i v g l g s f g a f i y
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i n a a t l k g i l v i n a p d g
n t i s a t e h t l a m l l s m a r n i p q a h q s l t n k e w r n a f k g t e l y h k t l g v i g a g r i g l g v a k r a q s f g m k i l a f d p y l t d e
k a k s l s i t k a t v d e i a g h s
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t p h l g a s t v e a q e k v a i s v
s n e i i e i l i d g t v t h a v n a p k m d l s n i d d t v k s f i n l s q t v g e l a i q l m y n a p s s i k i t y g g d l a s i d s l l t r t i i t h i
l k d d l g p e v n i i n a l m l l n
q q q v t l n i e n n k a e t g f s n y l e v e l s n d s d s v k v g a s v f t g f g p r i v r i n n f s v d l k p n q y q i v s y h n d t p g m v g k t g a l
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s f d f g s y k d v a f k g e r i p t
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s n r i e s l v t d l l d l s h i e q
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r v i f e v q d f g i g i k l e d q q
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k s p a t s s t g k s s e v n p k p
q s d e w f e l l e q t s p i d m l a s w s e s e p t i s q k a m v e l i e r e k m s f g v i n i l l q f v m l k e d m k l p k a y i l e i a s n w k k k g i
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p e l y v d n n r i k i r y l q c p c
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p l n w r l n p k e i a a i v e d a q
l k l l f y a e k h l s s l t d i d q n l l h m d i d v a q y d e i v n p d y h q p f a t p v e p q d l a a l i y t s g t t g s p k g v m f s y e s f v h n g
a n e l e t y k f n s n y i t i v s t
p m f h v l g f n d t v l p v l m s g g t l i l q r y f n g e e l n d m i a q y h p t f i i m i p t m y s t l r a s n f n p e n f k a m d y i i q g g s q p l
p s i q a a f k y g i n i i n g y g
l t e a p l v l v n t p e n s k r k p m s i g k a v m f v d a r i l d d n g e e v p t g e i g e l a i k a k n v t p g y w n k p a e t a k a f h g r y l l t g d
l a k m d d d g d i f i e r k k e l
i i t g g e n v l p s e v e n a l a e h p l v d r c v v v g y d h p k y g e s i a a a i l r e d e p h y a e i l d q h m r s r l a g y k v p r m y v p v t h m
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k v s q t l
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d d a d l y i e a v k e d i e i k h a
v w q q v l q h a k e d a l f a t n t s g i p i n a i a q t f n e k d q e r f f g l h f f n p p r i m k l v e l i p t s h t k e s i i l d v k n f a q n v l g k
g v i v v n d v p g f v a n r v g t q
t m d i m y r a e q h k l s i v d v a l t g q a i g r p k t g t y a l s d l v g l d i a v s v i k g m q q v p e e t p y f h d v k i v n t l f d n g a l g r
k t k q g f y k d k e t k a r l v y
d v e k q d y v p v s q p q l p i l n e f n k d l v h n l d v i f n a q d e a g l f l w e t l r n n f y s a i n v p k a t d d f r d i d r a l v w g f n w k l
g p f q l w d a m g y e r v k t r m e
d e i g d l p q w i s d l d g g f y k q d e t i e y a t p v s h f v k d e l w d k g d a k l s v t h d d q l l l k l q s k n n v i t d e f n d a l v d a i d l l
e n d h y t s m v i y a d g n n f s v
g a n l f l m k k a h e d g l v d d v v a q s i d k l h y s f n r l k y s l k p v v t a v q g r a l g g g c e l v l y s p i v v a a s e t y i g l v e a g v g l
l p s g g g l a e m a d r i l r t s h
k f d d k q a s m t k v l t n i a f a k v s t n a f e a r r y g y l r d t d t i i f n t a q r v e v a l k r a k y e a e t n y i p n p r h q y i a l g e d f k a
l i g g g l d a q r r g h f i s d h d
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y k d a v d k l k t r v l e e d q y l
l e r k k e k y e i y k e l y k k y k k e n p n t q v k m k a f d k y d l g d l t m e e y n d l s k l l t k a l d n f k l e v k k i e s e n p d l k p y s e s e
e r t a y g k i d s l v d q a y s v y
f a y v t d a q h k t e a l n l r a k i d l i l g d e k d p i r v t n q r t e k e m i k d l e s i i d d f f i e t k l n r p k h i t r y d g t k h d y h k h k d
g f d a l v k e t r e a v a k a d e s
w k n k t v k k y e e t v t k s p v v k e e k k v e e p q s p k f d n q e v k i t v d k a e t t q p v a q p l v k i p q g t i t g e i v k g p e y p t m e n
k t l q g e i v q g p d f p t m e q n
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d a g t g i r e y n d g t f g y e a r
p r f n k p s e t n a y n v t t n q d g t v t y g a r p t q n k p s k t n a y n v t t h a n r q v s y g a r p t q n k p s k t n a y n v t t h a n g q v s y g a
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i c y l h m n m s l f k f l l t l s n
e k y
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p d p i e a k e a d e t l r k t i r l
a n l l d v p v v n t f s g i a g s d d t a k k p n w p v t p w p t a y s e i y d y q w n e k l i p y w q d l a e f a k e q d v k i a i e l h a g f l v h t p y
t m l k l r e a t n e y i g a n l d p
s h l w w q g i d p i a a i r i l g q a n a i h h f h a k d t y i n g e n v m y g l t d m q p y g n v a t r a w t f r t v g y g h s p y v w a d i i s q l i i
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h c e i t v a g l h a g k h v m c k t
p m a k t t a e a q m i d t a k s t g k k l t i g y q n r f r a d s q f l h q a a q r g d l g d i y f g k a h a i r r a v p t w g v f l d e e a q g g g p l
i d i g t h a l d l t l w m m d n y e
p e s v m g s t f h k l n k q h h a a n a w g s w n p d e f t v e d s a f g f i k m k n g a t i m l e s a w a i n s l e v d e a k c s l s g t k a g a d m k d g
l r i h g e d m g t l y t k h v e l e
n k g v d f y e g n e v d e a e e e a k a w i d a v v n d t e p v v k p e q a m v v t k i l e a i y q s a k s g k a i y f e
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f a l p k g t p i k a p t n g k v t r

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g r i f c y v l t e d h y v i g g p v
n n g g v v l r w l r d e l l a s e v e t a k r l g v d p y d v l t q i a k r v k p g a d g l i f h p y l a g e r a p l w n a n a r g s f f g l t l s h k k e h
m i r a a l e g v l y n l y t v y l a
l i e v m n e t p k m i k a t g g f a k s e v w r q m m s d i f d t e l v v p e s y e s s c l g a c v l g l k a v g d i e d f s i v s s m v g a t n n h t p i e
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r l t t y k c t l n k e l p t l t e h
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v k g k i l t s n y l g f n s p a g g
g e l l k l k n v e v r l t d i a g f h a k g y i f e h k d y s s m v i g s s n l t s n a l k v n y e h v l l s t m k n g d l v d s v k n e f d l l w q n s t
q l t q q w i n s y k e s f e y r s l
e k l a e v e q t q m l l a d k v k s v e i v p n l m q a e a l r s l k a i r d k a d k a l i i s a t g t g k t i l c a l d v r e v n p n k f l f i v h n e
g i l n r a k e e f k k v l p t k n d
s d f g l l t g k h r d v a k y l f a t i q t l s r d d n f k q f d e k e f d y i v f d e a h r s a a s t y q r v f n y f k p k f m l g m t a t p e r s d e l
s i f e m f d y n i a y e i r l q a a
l e s d i l c p f h y g v t d y v h g i k e d d v t k l r y l t s d e r v n y i i q k t d y y g s g e i l q g l i f v s s k e a y d l a d k l s s k g i
k s v a l t g d d s v n y r q i v i e
k l r e g k i n y i i t v d l f n e g i d i p e v n q v m l r p t e s s i i f i q q l g r g l r k s s n e y v t v i d f i g n y k t n y l i p i a l s g d q
s q n k d n y k k f l t n n d s i n g
v s t i n f e e v a k k q i y n s l d a v s l n q n k l i l k a y e e v e n l g h m p l l m d f i q q h s i d p s v i f s k f s n y y e f l v r y k k i d a l
l t e n e s k n l v f f s r q i a p g
l k r i d s i v l e e l l k n e l t y d e l k n k m l n e v k d i t e d d i d t s l r i l d f s f y n a g i e k i y g s p i e c n e r m i r l s d a f t n a l
s n q t f k i f l e d l i e l s k y n
n e k y q k g k n g l i l y n k y s r e d f s k i f n w s k n g s s v i m g y m i r s q e m p i f i t y d k h e d i s d s t k y e d e f l s q d e l k w f t k s
n r t l k s k e v q k i l s h r a k g
i k m y i f v q k k d d d g i y f y l g t a g y i e g s e k q d k m p n g s n v v t m d l a l d k a v r d d i y r y i t n
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g y i n e n k e d d f v a y a s p e n
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g y i n e n k k d n f t a y a t p e h
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d q e k v t l e f a e m l n s i k d f
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t i k n f s e f p a l g l v l a m m i
g i g v a e k t y f d k l m i s v n r a p r f l i l p t i i l i g i l g s t a g d a a t i l p p l a a m l f i k i g y h p i a g l t m a y a s a v g g f a
a n i v v g m q d a l v y s f t e p a
t r i v s d s i k t n v a m n w y f i a v s v v l l p t i l l v t t k l i i p r l g y d d r l m h d d h e e t s s h i t d k e a h a l k w a n i s f i v t i
i l l i i t a i p e h s f l r n a k t
g s l l d d a p l i n g v g l i i l v f l v p g l v y g i l s k e i k n t k d l g k m f g d a v g s m g t f i v i v f f a a q l l a y l k w s n l g i a a v
k g a k l l e h q n g i v l i l g i i
v l s a m v n m l i g s a s a k w g i l g p i f v p m l i l i g f h p a f t q v i y r v g d s i t n p i t p m p y l p l l l t y a q y d k r m k l g a l l s
s l m p y s i a l s i a w t v f v i i
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v k g e y e t v m m a c t a d a y y d
t l q q l s l e t l q s v k h v i l i s p t f g s q m i v e q f m s k f s q d i e v i s f s t y l g d t r i v d k e a p n h v l t t g v k k k l y m g s t h s n
s t m c q r i s a l a e q l k i q l e
v v e s p l h a e t r n s s l y v h p p l f m n d f s l k a i f e g t d v p v y v k l f p e g p i t m t l i r e m r l m w k e m m a i l q a f r v p s v n l l
q f m v k e n y p v r p e t l d e g d
i e h f e i l p d i l q e y l l y v r y t a i l i d p f s q p d e n g h y f d f s a v p f k q v y k n e q d v v q i p r m p s e d y y r t a m i q h i g e m l g
i k t p m i n q f l t r y e a s c k t
y k d m h q d q q l s s q f n t n l f e g d k a l v t k f l e i n r t l s

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y g n c t y y a f d r r a q l g r s i
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i k v m p p e i n t i e g g k d l i k
e e l h k l g p v s a r e w r l i v i s m l l l l f w s t e k v l h p i d s a s i t i a l g v m l m p k i g v m t w k h v e n k i p w g t i i v f g v g i s l
g n v l l k t g a a q w l s d q t f g
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d l s s k h i v k s v e q s l i n l n v g y l d s l l i h r p s p l m d p e q v a d a l t k l v k q g k l s f g v s n f n h s q y q l l n q y i m k e r l h i
s i n q l e l s p y h v d s l q d g t
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e e l d l p g k d r e i s s h h h h h h g i k s m t y t f t g p i d r q l f y q f i m k l s e s v l r l k g y v s f r d q p n a i y e f q y a y g l p d y g i i
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w g a n v f f h g n v i g m f i f p s
v i a l l i g i a t l f i g k d d p e e l g w n r a e e i w e e p v d k e n i d s q g m t k w e i f k k y i l g n p v i w i l c v s n v f v y i v r i g i d n w
a p l y v s e h l h f s k g d a v n t
i f y f e i g a l v a s l l w g y v s d l l k g r r a i v a i g c m f m i t f v l f y t n a t s v m m v n i s l f a l g a l i f g p q l l i g v s l t g f v p
k n a i s v a n g m t g s f a y l f g
d s m a k v g l a a i a d p t r n g l n i f g y t l s g w t d v f i v f y v a l f l g m i l l g i v a f y e e k k i r s l k i
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p d p t e a k e a d e t l r k t i r l
a n l l d v p v v n t f s g i a g s d d t a k k p n w p v t p w p t a y s e i y d y q w n e k l i p y w q d l a e f a k e q d v k i a i e l h a g f l v h t p y
t m l k l r e a t n e y i g a n l d p
s h l w w g g i d p i a a i r i l g q a n a i h h f h a k d t y i n q e n v n m y g l t d m q l y g n v a t r a w t f r t v g y g h s p y v w a d i i s q l i i
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e g f q k a c q t l k s v n i y d k p a d m w w a
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l s i e a l n h g v h v l c e k p m a
m t t e e c d r m i e a a n k n c k l l t v a y h y r h t d v a i t a k k a i e s g v v g k p l v a r v q a m r r r k v p g w g v f t n k a l q g g g s l i d y
g c h l l d l s l w l l g k d m v p h
e v l g k t y n q l s k q n q i n d w g t f d h t k f d v d d h v t s y m t f a n r a s m q f e c s w s a n i k e d k v h v s l s g e d g g i n l f p f e i y
e p r f g t i f e s k a n v e h n e d
i a g e r q a r n f v n a c l g i e e i v v k p e a r n v n a l i e a i y r s d l n k s i q l
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h c e i t v a g l h a g k h v m c e k
p m a k t t a e a q k m i d t a k s t g k k l t i g y q n r f r p d s q f l y k s a q r g d l g d i y f g k a h a i r r r a v p t w g v f l d e e a q g g g p l
i d i g t h a l d l t l w m m d n y e
p e s v m g s t f h k l n k q h d a a n a w g s w n p d e f t v e d s a f g f i k m k n g a t i i l e s a w a i n s l e v d e a k c s l s g t k a g a d m k d g
l r i h g e d m g t l y t k h v e l e
n k g v d f y e g n e v d e a e e e a k a w i d a v v n d t e p v v k p e q a m v v t k i l e a i y q s a k s g k a i y f e
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q n d q l e n i s l d a p a g k g p d
i f f l a h d n t g s a y l q g l a e i k l s k d e l k g f n k q a l k a m n y d n k q l a l p a i v e t t a l f y n k k l v k n a p q t l e e v e a n a a k
l t d s k k k q y g m l f d a k n f y
f n y p f l f g n d d y i f k k n g s e y d i h q l g l n s k h v v k n a e r l q k w y d k g y l p k a a t h d v m i g l f k e g k v g q f v t g p w n i n e y
q e t f g k d l g v t t l p t d g g k
p m k p f l g v r g w y l s e y s k h y w a k d l m l y i t s k d t l q k y t d e m s e i t g r v d v k s s n p n l k v f e k q a r h a e p m p n i p e m r q
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l l m t l t g n v f t l l m f v s i r
r y q r t s q i h s y n g w e s f i r k t t r h r i a i i g l l i l v y m l t l s i v s q f t f d t t l a t k n q f n a l l h g p s l a y p f g t d d f g r d l
f t r v v g t k l t f s i s i s v
v i a v v f g v l l g t i a g y f n h i d n l i m r i l d v v f a i p s l l l a v a i a s f g a s i p n l i a l s i g n i p s f a r t m r a s v l e i k r m
e y d a a r i t g e n t w n i i w r
y i l p n a i a p m i v r f s l n i g v v v l t t s s l s f l g l g v t p d v a e w g n i l r t g s n y l e t h s n l a i v p g i c i m f v v l a f n f i g d a
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n s k n i e q a h f s t y f e n v l f
h k f i i i k v i l a l p m f i l l t i y l q p l v r y i f e r i v m a v i i g v i v s v f s i l y f s p l d a a y s i l g q n a t k a q i h q f n v l h h
l n e p y f i q l w d t i k g v f t f
d l g t t y k g n d v v t k a v g e r i p i t i i v a v l a l i v a l i a i p i g i i s a m k r n s w l d i t l m i a l i g l s i p s f w q g l l f i l a f
s l k l d i l p p s y m p e h p i s l
i l p v l v i g t s i a a s i t r m t r s s v l e v m r s d y v l t a y a k g l s t t q v v i k h i l k n a i p i v t l v g l l v a e l l g g s a v t e q v f
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n t t a l s e m p i g n i a d f i
l l n g k g v v y e i k t e l d k l d r l d n q i n d y e v f n y v v i t n d k h l n k v m a r y k d t t v g i l v l t s r n t l s e v q k p k e n n s l l

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aldti tqydvleafidikk

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s w f k v k l n n d s l l e k n s y k
l l i d d k d v d y n s k k t y g k y n p t e l s v y a i g l e g k e f k t n r i n i r r n y d n k p q n l k l s f k e s q i r d y e s k s k v k e k a k
s y i k e y t k e l n k a y k k k d y
k y i s d y v k n n s q l e k q l k k q v k s k s k v k f k d v k i n n v k r d k n k i y i e l s k t n g n v f q t k y t l d y d n v s n e f l v e d s h d n
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s e f d y n l t n l d d y f t k d t a
n k g y e k l v n a i k s e e i t y f d s d i n e v d d f t q q d e y s n d w y t n t f v d l v l s m k g y s y h v e p n r e s v i e d s h i i t e n d i t y n
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f r k l f s h f s e p h h l r l g f s
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d f t p f l f d g n k t l l v p k l f t t y n q t s s l d l m i r v y i e e e i r l q k q r n t t k m t k k q f i n e f i k g h r m d n m t y f f l n t s s
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t q i e y n e k v s s v f n e y g s q
s t d i q n n e r t q q k r p f g g v i p n c m t q e e y q e l e s h v p n p n s v s t e k y n q i v k n e s q k i a n e e n k t i n t p q g v l t p v t e n
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k d l g q a f h t g k q s e g a s d v

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k d e q q m l r l a k r v v k e k w s
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