

Tsompanidou_et_al_Supplemental_FASTA_File

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

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

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fskeptiikel d v s r n h t e

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

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

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Tsompanidou_et_al_Supplemental_FASTA_File

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

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Tsompanidou_et_al_Supplemental_FASTA_File

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

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

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

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

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

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

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

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

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

>tr|D2NA93|D2NA93_STAA5

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

>tr|D2NA95|D2NA95_STAA5

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

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

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

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

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

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

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

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

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Tsompanidou_et_al_Supplemental_FASTA_File

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q w l e v p s i e a t k q l m n h k g
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fradtdyadialf l g l k g n
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vksprildevskdl d d k y s
psklssmltintgentqliniqvksghkq d s e k i a n s f a k v t s k q i p k i m s v d n v s i l s k a d g t a v k v a p k t v v n l i g a f
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vkavttsivitm v v t i v t
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y d v l l r e q p d a l l i g d t n
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rdkinhsdvl n k l g l e p q q

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Tsompanidou_et_al_Supplemental_FASTA_File

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Tsompanidou_et_al_Supplemental_FASTA_File

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Tsompanidou_et_al_Supplemental_FASTA_File

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Tsompanidou_et_al_Supplemental_FASTA_File

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

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