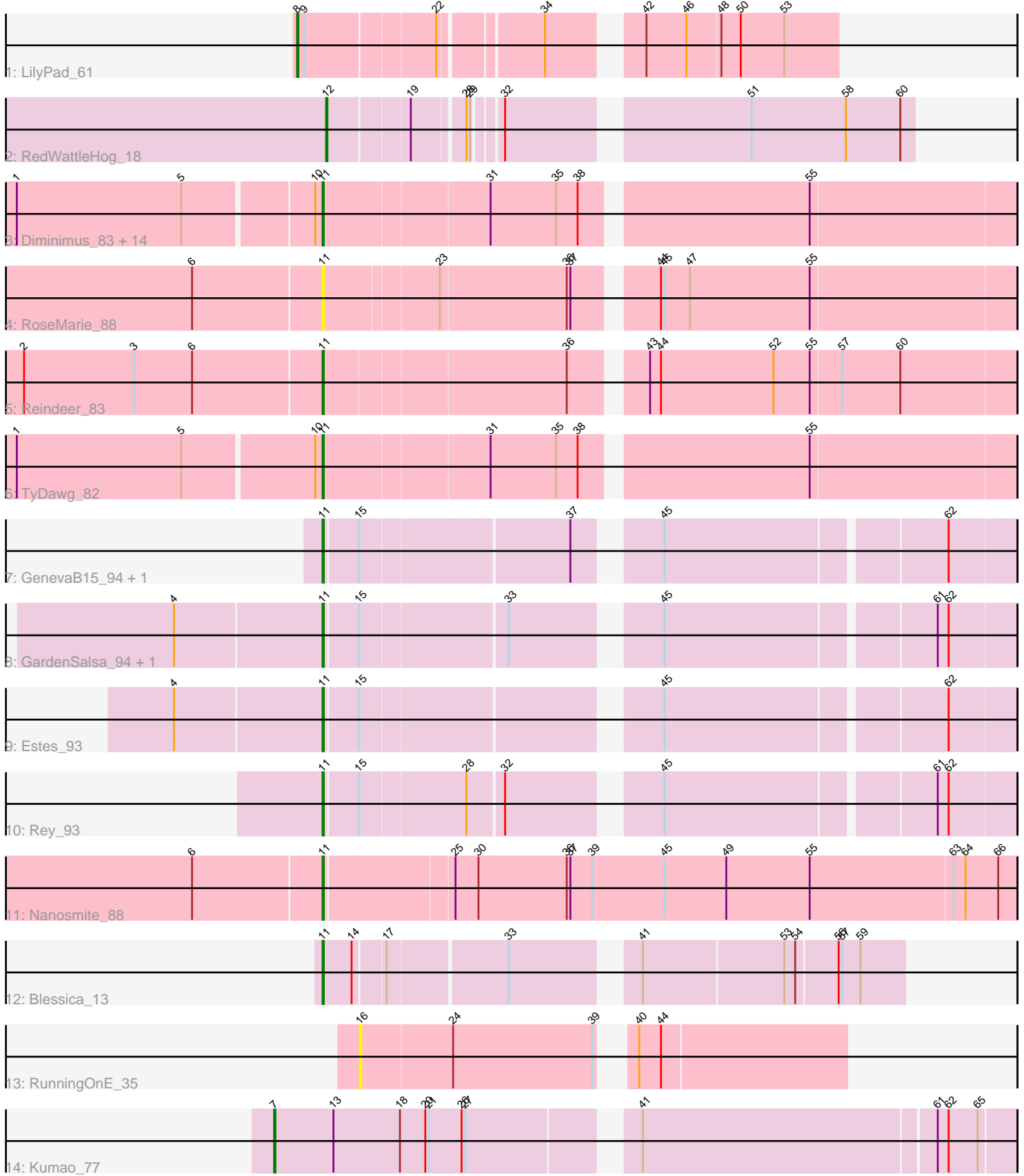


Pham 309031



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 309031 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309031 has 30 members, 4 are drafts.

Phages represented in each track:

- Track 1 : LilyPad\_61
- Track 2 : RedWattleHog\_18
- Track 3 : Diminimus\_83, KleverKiS\_81, SlimJimmy\_81, Dulcita\_83, PegLeg\_81, Auspice\_82, Izel\_83, TpudiCK\_84, FreakyGoo\_84, IPhane7\_81, LilhomieP\_82, Skinny\_86, Bongo\_82, Bricole\_81, Glaske16\_83
- Track 4 : RoseMarie\_88
- Track 5 : Reindeer\_83
- Track 6 : TyDawg\_82
- Track 7 : GenevaB15\_94, Aziz\_92
- Track 8 : GardenSalsa\_94, MrMagoo\_95
- Track 9 : Estes\_93
- Track 10 : Rey\_93
- Track 11 : Nanosmite\_88
- Track 12 : Blessica\_13
- Track 13 : RunningOnE\_35
- Track 14 : Kumao\_77

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 11, it was called in 23 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Auspice\_82, Aziz\_92, Blessica\_13, Bongo\_82, Bricole\_81, Diminimus\_83, Dulcita\_83, Estes\_93, FreakyGoo\_84, GardenSalsa\_94, GenevaB15\_94, Glaske16\_83, IPhane7\_81, Izel\_83, KleverKiS\_81, LilhomieP\_82, MrMagoo\_95, Nanosmite\_88, PegLeg\_81, Reindeer\_83, Rey\_93, RoseMarie\_88, Skinny\_86, SlimJimmy\_81, TpudiCK\_84, TyDawg\_82,

Genes that have the "Most Annotated" start but do not call it:

- 

Genes that do not have the "Most Annotated" start:

- Kumao\_77, LilyPad\_61, RedWattleHog\_18, RunningOnE\_35,

## Summary by start number:

### Start 7:

- Found in 1 of 30 ( 3.3% ) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumao\_77 (singleton),

### Start 8:

- Found in 1 of 30 ( 3.3% ) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilyPad\_61 (DG1),

### Start 11:

- Found in 26 of 30 ( 86.7% ) of genes in pham
- Manual Annotations of this start: 23 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Auspice\_82 (M1), Aziz\_92 (M2), Blessica\_13 (O), Bongo\_82 (M1), Bricole\_81 (M1), Diminimus\_83 (M1), Dulcita\_83 (M1), Estes\_93 (M2), FreakyGoo\_84 (M1), GardenSalsa\_94 (M2), GenevaB15\_94 (M2), Glaske16\_83 (M1), IPhane7\_81 (M1), Izel\_83 (M1), KleverKiS\_81 (M1), LilhomieP\_82 (M1), MrMagoo\_95 (M2), Nanosmite\_88 (M3), PegLeg\_81 (M1), Reindeer\_83 (M1), Rey\_93 (M2), RoseMarie\_88 (M1), Skinny\_86 (M1), SlimJimmy\_81 (M1), TpudiCK\_84 (M1), TyDawg\_82 (M1),

### Start 12:

- Found in 1 of 30 ( 3.3% ) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RedWattleHog\_18 (DX),

### Start 16:

- Found in 1 of 30 ( 3.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RunningOnE\_35 (UNK),

## Summary by clusters:

There are 8 clusters represented in this pham: singleton, M3, O, DG1, M1, DX, M2, UNK,

### Info for manual annotations of cluster DG1:

- Start number 8 was manually annotated 1 time for cluster DG1.

### Info for manual annotations of cluster DX:

- Start number 12 was manually annotated 1 time for cluster DX.

### Info for manual annotations of cluster M1:

- Start number 11 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 11 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 11 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster O:

- Start number 11 was manually annotated 1 time for cluster O.

### **Gene Information:**

Gene: Auspice\_82 Start: 51592, Stop: 52134, Start Num: 11

Candidate Starts for Auspice\_82:

(1, 51349), (5, 51484), (10, 51586), (Start: 11 @51592 has 23 MA's), (31, 51724), (35, 51778), (38, 51796), (55, 51970),

Gene: Aziz\_92 Start: 53866, Stop: 54384, Start Num: 11

Candidate Starts for Aziz\_92:

(Start: 11 @53866 has 23 MA's), (15, 53893), (37, 54058), (45, 54112), (62, 54331),

Gene: Blessica\_13 Start: 5453, Stop: 5890, Start Num: 11

Candidate Starts for Blessica\_13:

(Start: 11 @5453 has 23 MA's), (14, 5477), (17, 5501), (33, 5594), (41, 5681), (53, 5795), (54, 5804), (56, 5837), (57, 5840), (59, 5855),

Gene: Bongo\_82 Start: 51596, Stop: 52138, Start Num: 11

Candidate Starts for Bongo\_82:

(1, 51353), (5, 51488), (10, 51590), (Start: 11 @51596 has 23 MA's), (31, 51728), (35, 51782), (38, 51800), (55, 51974),

Gene: Bricole\_81 Start: 51360, Stop: 51902, Start Num: 11

Candidate Starts for Bricole\_81:

(1, 51117), (5, 51252), (10, 51354), (Start: 11 @51360 has 23 MA's), (31, 51492), (35, 51546), (38, 51564), (55, 51738),

Gene: Diminimus\_83 Start: 51591, Stop: 52133, Start Num: 11

Candidate Starts for Diminimus\_83:

(1, 51348), (5, 51483), (10, 51585), (Start: 11 @51591 has 23 MA's), (31, 51723), (35, 51777), (38, 51795), (55, 51969),

Gene: Dulcita\_83 Start: 51592, Stop: 52134, Start Num: 11

Candidate Starts for Dulcita\_83:

(1, 51349), (5, 51484), (10, 51586), (Start: 11 @51592 has 23 MA's), (31, 51724), (35, 51778), (38, 51796), (55, 51970),

Gene: Estes\_93 Start: 53965, Stop: 54483, Start Num: 11

Candidate Starts for Estes\_93:

(4, 53845), (Start: 11 @53965 has 23 MA's), (15, 53992), (45, 54211), (62, 54430),

Gene: FreakyGoo\_84 Start: 52071, Stop: 52613, Start Num: 11

Candidate Starts for FreakyGoo\_84:

(1, 51828), (5, 51963), (10, 52065), (Start: 11 @52071 has 23 MA's), (31, 52203), (35, 52257), (38, 52275), (55, 52449),

Gene: GardenSalsa\_94 Start: 54325, Stop: 54843, Start Num: 11

Candidate Starts for GardenSalsa\_94:

(4, 54205), (Start: 11 @54325 has 23 MA's), (15, 54352), (33, 54466), (45, 54571), (61, 54781), (62, 54790),

Gene: GenevaB15\_94 Start: 53866, Stop: 54384, Start Num: 11

Candidate Starts for GenevaB15\_94:

(Start: 11 @53866 has 23 MA's), (15, 53893), (37, 54058), (45, 54112), (62, 54331),

Gene: Glaske16\_83 Start: 51656, Stop: 52198, Start Num: 11

Candidate Starts for Glaske16\_83:

(1, 51413), (5, 51548), (10, 51650), (Start: 11 @51656 has 23 MA's), (31, 51788), (35, 51842), (38, 51860), (55, 52034),

Gene: IPHane7\_81 Start: 51596, Stop: 52138, Start Num: 11

Candidate Starts for IPHane7\_81:

(1, 51353), (5, 51488), (10, 51590), (Start: 11 @51596 has 23 MA's), (31, 51728), (35, 51782), (38, 51800), (55, 51974),

Gene: Izel\_83 Start: 51591, Stop: 52133, Start Num: 11

Candidate Starts for Izel\_83:

(1, 51348), (5, 51483), (10, 51585), (Start: 11 @51591 has 23 MA's), (31, 51723), (35, 51777), (38, 51795), (55, 51969),

Gene: KleverKiS\_81 Start: 51354, Stop: 51896, Start Num: 11

Candidate Starts for KleverKiS\_81:

(1, 51111), (5, 51246), (10, 51348), (Start: 11 @51354 has 23 MA's), (31, 51486), (35, 51540), (38, 51558), (55, 51732),

Gene: Kumao\_77 Start: 51889, Stop: 52464, Start Num: 7

Candidate Starts for Kumao\_77:

(Start: 7 @51889 has 1 MA's), (13, 51937), (18, 51991), (20, 52012), (21, 52015), (26, 52042), (27, 52045), (41, 52165), (61, 52402), (62, 52411), (65, 52435),

Gene: LilhomieP\_82 Start: 52075, Stop: 52617, Start Num: 11

Candidate Starts for LilhomieP\_82:

(1, 51832), (5, 51967), (10, 52069), (Start: 11 @52075 has 23 MA's), (31, 52207), (35, 52261), (38, 52279), (55, 52453),

Gene: LilyPad\_61 Start: 44847, Stop: 45245, Start Num: 8

Candidate Starts for LilyPad\_61:

(Start: 8 @44847 has 1 MA's), (9, 44853), (22, 44955), (34, 45030), (42, 45090), (46, 45123), (48, 45150), (50, 45165), (53, 45201),

Gene: MrMagoo\_95 Start: 54325, Stop: 54843, Start Num: 11

Candidate Starts for MrMagoo\_95:

(4, 54205), (Start: 11 @54325 has 23 MA's), (15, 54352), (33, 54466), (45, 54571), (61, 54781), (62, 54790),

Gene: Nanosmite\_88 Start: 53290, Stop: 53850, Start Num: 11

Candidate Starts for Nanosmite\_88:

(6, 53185), (Start: 11 @53290 has 23 MA's), (25, 53392), (30, 53410), (36, 53482), (37, 53485), (39, 53503), (45, 53563), (49, 53614), (55, 53683), (63, 53800), (64, 53809), (66, 53836),

Gene: PegLeg\_81 Start: 51336, Stop: 51878, Start Num: 11

Candidate Starts for PegLeg\_81:

(1, 51093), (5, 51228), (10, 51330), (Start: 11 @51336 has 23 MA's), (31, 51468), (35, 51522), (38, 51540), (55, 51714),

Gene: RedWattleHog\_18 Start: 21845, Stop: 22282, Start Num: 12

Candidate Starts for RedWattleHog\_18:

(Start: 12 @21845 has 1 MA's), (19, 21908), (28, 21947), (29, 21950), (32, 21968), (51, 22148), (58, 22226), (60, 22271),

Gene: Reindeer\_83 Start: 52390, Stop: 52929, Start Num: 11

Candidate Starts for Reindeer\_83:

(2, 52147), (3, 52237), (6, 52285), (Start: 11 @52390 has 23 MA's), (36, 52582), (43, 52633), (44, 52642), (52, 52735), (55, 52765), (57, 52789), (60, 52837),

Gene: Rey\_93 Start: 53635, Stop: 54153, Start Num: 11

Candidate Starts for Rey\_93:

(Start: 11 @53635 has 23 MA's), (15, 53662), (28, 53746), (32, 53773), (45, 53881), (61, 54091), (62, 54100),

Gene: RoseMarie\_88 Start: 55321, Stop: 55860, Start Num: 11

Candidate Starts for RoseMarie\_88:

(6, 55216), (Start: 11 @55321 has 23 MA's), (23, 55411), (36, 55513), (37, 55516), (44, 55573), (45, 55576), (47, 55597), (55, 55696),

Gene: RunningOnE\_35 Start: 16150, Stop: 15782, Start Num: 16

Candidate Starts for RunningOnE\_35:

(16, 16150), (24, 16075), (39, 15961), (40, 15949), (44, 15931),

Gene: Skinny\_86 Start: 52504, Stop: 53046, Start Num: 11

Candidate Starts for Skinny\_86:

(1, 52261), (5, 52396), (10, 52498), (Start: 11 @52504 has 23 MA's), (31, 52636), (35, 52690), (38, 52708), (55, 52882),

Gene: SlimJimmy\_81 Start: 51933, Stop: 52475, Start Num: 11

Candidate Starts for SlimJimmy\_81:

(1, 51690), (5, 51825), (10, 51927), (Start: 11 @51933 has 23 MA's), (31, 52065), (35, 52119), (38, 52137), (55, 52311),

Gene: TpudiCK\_84 Start: 51596, Stop: 52138, Start Num: 11

Candidate Starts for TpudiCK\_84:

(1, 51353), (5, 51488), (10, 51590), (Start: 11 @51596 has 23 MA's), (31, 51728), (35, 51782), (38, 51800), (55, 51974),

Gene: TyDawg\_82 Start: 51599, Stop: 52141, Start Num: 11

Candidate Starts for TyDawg\_82:

(1, 51353), (5, 51488), (10, 51593), (Start: 11 @51599 has 23 MA's), (31, 51731), (35, 51785), (38, 51803), (55, 51977),

