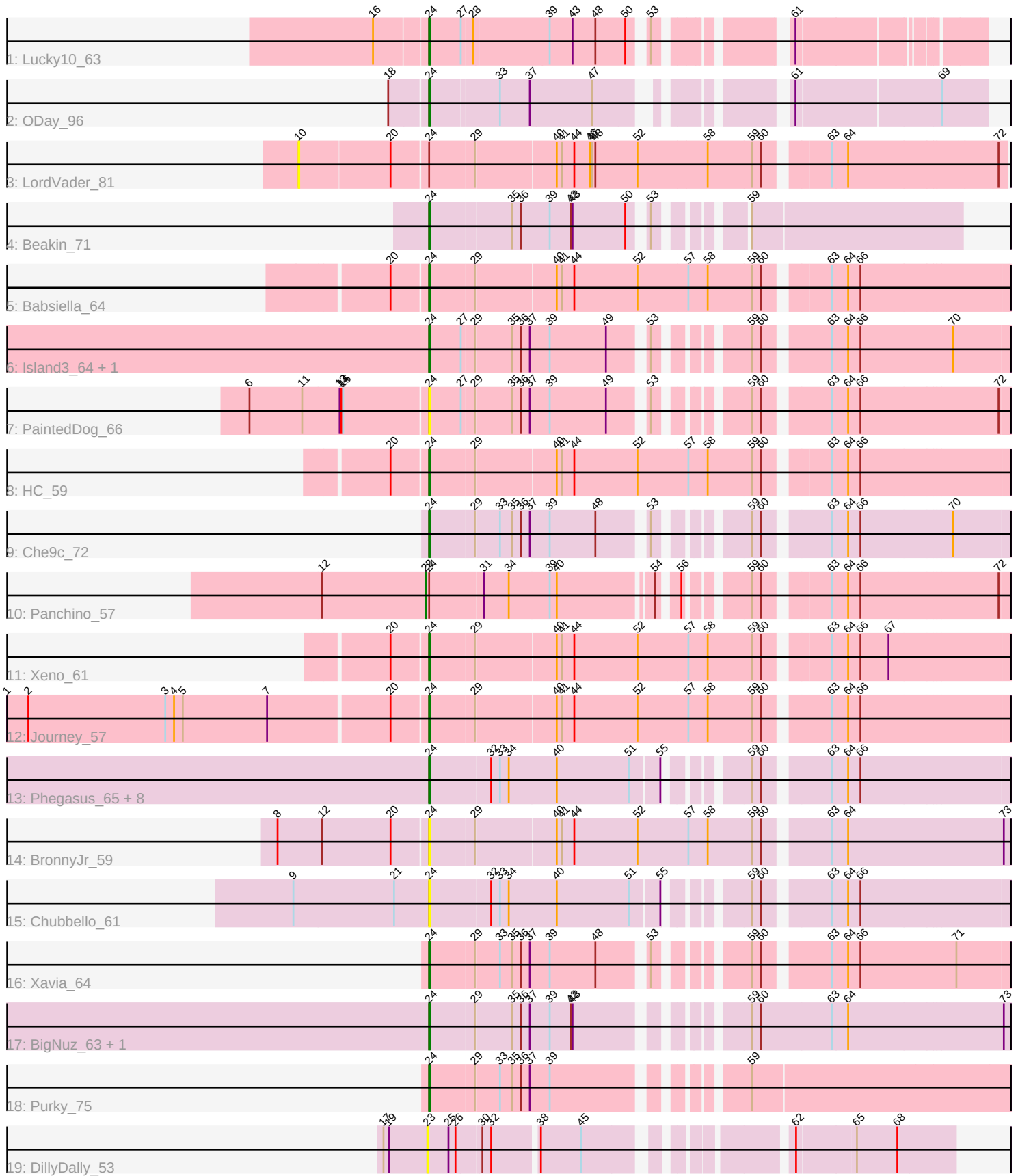


Pham 280737



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 280737 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280737 has 29 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Lucky10_63
- Track 2 : ODay_96
- Track 3 : LordVader_81
- Track 4 : Beakin_71
- Track 5 : Babsiella_64
- Track 6 : Island3_64, Brujita_63
- Track 7 : PaintedDog_66
- Track 8 : HC_59
- Track 9 : Che9c_72
- Track 10 : Panchino_57
- Track 11 : Xeno_61
- Track 12 : Journey_57
- Track 13 : Phegasus_65, Kari_62, Majeke_65, Langerak_62, Stuck_75, Fishburne_61, Etoile_61, Donovan_62, Mangethe_65
- Track 14 : BronnyJr_59
- Track 15 : Chubbello_61
- Track 16 : Xavia_64
- Track 17 : BigNuz_63, Nazo_64
- Track 18 : Purky_75
- Track 19 : DillyDally_53

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

The start number called the most often in the published annotations is 24, it was called in 22 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Babsiella_64, Beakin_71, BigNuz_63, BronnyJr_59, Brujita_63, Che9c_72, Chubbello_61, Donovan_62, Etoile_61, Fishburne_61, HC_59, Island3_64, Journey_57, Kari_62, Langerak_62, Lucky10_63, Majeke_65, Mangethe_65, Nazo_64, ODay_96, PaintedDog_66, Phegasus_65, Purky_75, Stuck_75, Xavia_64, Xeno_61,

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

- LordVader_81, Panchino_57,

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

- DillyDally_53,

Summary by start number:

Start 10:

- Found in 1 of 29 (3.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LordVader_81 (F),

Start 22:

- Found in 1 of 29 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Panchino_57 (N),

Start 23:

- Found in 1 of 29 (3.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DillyDally_53 (singleton),

Start 24:

- Found in 28 of 29 (96.6%) of genes in pham
- Manual Annotations of this start: 22 of 23
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Babsiella_64 (I1), Beakin_71 (F1), BigNuz_63 (P4), BronnyJr_59 (P1), Brujita_63 (I1), Che9c_72 (I2), Chubbello_61 (P1), Donovan_62 (P1), Etoile_61 (P1), Fishburne_61 (P1), HC_59 (I1), Island3_64 (I1), Journey_57 (N), Kari_62 (P1), Langerak_62 (P1), Lucky10_63 (DH), Majeke_65 (P1), Mangethe_65 (P1), Nazo_64 (P4), ODay_96 (DN), PaintedDog_66 (I1), Phegasus_65 (P1), Purky_75 (P6), Stuck_75 (I2), Xavia_64 (P3), Xeno_61 (N),

Summary by clusters:

There are 12 clusters represented in this pham: DN, P3, singleton, P1, P6, DH, P4, F1, I1, I2, N, F,

Info for manual annotations of cluster DH:

- Start number 24 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:

- Start number 24 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster F1:

- Start number 24 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster I1:

- Start number 24 was manually annotated 4 times for cluster I1.

Info for manual annotations of cluster I2:

- Start number 24 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster N:

- Start number 22 was manually annotated 1 time for cluster N.
- Start number 24 was manually annotated 2 times for cluster N.

Info for manual annotations of cluster P1:

- Start number 24 was manually annotated 8 times for cluster P1.

Info for manual annotations of cluster P3:

- Start number 24 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:

- Start number 24 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P6:

- Start number 24 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: Babsiella_64 Start: 40664, Stop: 41602, Start Num: 24

Candidate Starts for Babsiella_64:

(20, 40604), (Start: 24 @40664 has 22 MA's), (29, 40739), (40, 40871), (41, 40880), (44, 40901), (52, 41009), (57, 41093), (58, 41126), (59, 41201), (60, 41216), (63, 41309), (64, 41336), (66, 41357),

Gene: Beakin_71 Start: 42319, Stop: 43122, Start Num: 24

Candidate Starts for Beakin_71:

(Start: 24 @42319 has 22 MA's), (35, 42454), (36, 42469), (39, 42517), (42, 42553), (43, 42556), (50, 42646), (53, 42667), (59, 42772),

Gene: BigNuz_63 Start: 41443, Stop: 42339, Start Num: 24

Candidate Starts for BigNuz_63:

(Start: 24 @41443 has 22 MA's), (29, 41518), (35, 41578), (36, 41593), (37, 41608), (39, 41641), (42, 41677), (43, 41680), (59, 41905), (60, 41920), (63, 42040), (64, 42067), (73, 42328),

Gene: BronnyJr_59 Start: 40610, Stop: 41554, Start Num: 24

Candidate Starts for BronnyJr_59:

(8, 40358), (12, 40433), (20, 40550), (Start: 24 @40610 has 22 MA's), (29, 40685), (40, 40817), (41, 40826), (44, 40847), (52, 40955), (57, 41039), (58, 41072), (59, 41147), (60, 41162), (63, 41258), (64, 41285), (73, 41543),

Gene: Brujita_63 Start: 40794, Stop: 41660, Start Num: 24

Candidate Starts for Brujita_63:

(Start: 24 @40794 has 22 MA's), (27, 40848), (29, 40869), (35, 40929), (36, 40944), (37, 40959), (39, 40992), (49, 41088), (53, 41142), (59, 41256), (60, 41271), (63, 41367), (64, 41394), (66, 41415), (70, 41565),

Gene: Che9c_72 Start: 50505, Stop: 51371, Start Num: 24

Candidate Starts for Che9c_72:

(Start: 24 @50505 has 22 MA's), (29, 50580), (33, 50619), (35, 50640), (36, 50655), (37, 50670), (39, 50703), (48, 50781), (53, 50853), (59, 50967), (60, 50982), (63, 51078), (64, 51105), (66, 51126), (70, 51276),

Gene: Chubbello_61 Start: 39417, Stop: 40307, Start Num: 24

Candidate Starts for Chubbello_61:

(9, 39186), (21, 39357), (Start: 24 @39417 has 22 MA's), (32, 39519), (33, 39534), (34, 39549), (40, 39630), (51, 39753), (55, 39801), (59, 39903), (60, 39918), (63, 40014), (64, 40041), (66, 40062),

Gene: DillyDally_53 Start: 33082, Stop: 33858, Start Num: 23

Candidate Starts for DillyDally_53:

(17, 33007), (19, 33016), (23, 33082), (25, 33118), (26, 33130), (30, 33169), (32, 33184), (38, 33256), (45, 33325), (62, 33601), (65, 33697), (68, 33760),

Gene: Donovan_62 Start: 40357, Stop: 41247, Start Num: 24

Candidate Starts for Donovan_62:

(Start: 24 @40357 has 22 MA's), (32, 40459), (33, 40474), (34, 40489), (40, 40570), (51, 40693), (55, 40741), (59, 40843), (60, 40858), (63, 40954), (64, 40981), (66, 41002),

Gene: Etoile_61 Start: 40183, Stop: 41073, Start Num: 24

Candidate Starts for Etoile_61:

(Start: 24 @40183 has 22 MA's), (32, 40285), (33, 40300), (34, 40315), (40, 40396), (51, 40519), (55, 40567), (59, 40669), (60, 40684), (63, 40780), (64, 40807), (66, 40828),

Gene: Fishburne_61 Start: 40183, Stop: 41073, Start Num: 24

Candidate Starts for Fishburne_61:

(Start: 24 @40183 has 22 MA's), (32, 40285), (33, 40300), (34, 40315), (40, 40396), (51, 40519), (55, 40567), (59, 40669), (60, 40684), (63, 40780), (64, 40807), (66, 40828),

Gene: HC_59 Start: 38210, Stop: 39148, Start Num: 24

Candidate Starts for HC_59:

(20, 38150), (Start: 24 @38210 has 22 MA's), (29, 38285), (40, 38417), (41, 38426), (44, 38447), (52, 38555), (57, 38639), (58, 38672), (59, 38747), (60, 38762), (63, 38855), (64, 38882), (66, 38903),

Gene: Island3_64 Start: 40794, Stop: 41660, Start Num: 24

Candidate Starts for Island3_64:

(Start: 24 @40794 has 22 MA's), (27, 40848), (29, 40869), (35, 40929), (36, 40944), (37, 40959), (39, 40992), (49, 41088), (53, 41142), (59, 41256), (60, 41271), (63, 41367), (64, 41394), (66, 41415), (70, 41565),

Gene: Journey_57 Start: 37762, Stop: 38703, Start Num: 24

Candidate Starts for Journey_57:

(1, 37057), (2, 37093), (3, 37327), (4, 37342), (5, 37357), (7, 37501), (20, 37702), (Start: 24 @37762 has 22 MA's), (29, 37837), (40, 37969), (41, 37978), (44, 37999), (52, 38107), (57, 38191), (58, 38224), (59, 38299), (60, 38314), (63, 38410), (64, 38437), (66, 38458),

Gene: Kari_62 Start: 40180, Stop: 41070, Start Num: 24

Candidate Starts for Kari_62:

(Start: 24 @40180 has 22 MA's), (32, 40282), (33, 40297), (34, 40312), (40, 40393), (51, 40516), (55, 40564), (59, 40666), (60, 40681), (63, 40777), (64, 40804), (66, 40825),

Gene: Langerak_62 Start: 40160, Stop: 41050, Start Num: 24

Candidate Starts for Langerak_62:

(Start: 24 @40160 has 22 MA's), (32, 40262), (33, 40277), (34, 40292), (40, 40373), (51, 40496), (55, 40544), (59, 40646), (60, 40661), (63, 40757), (64, 40784), (66, 40805),

Gene: LordVader_81 Start: 46533, Stop: 47675, Start Num: 10

Candidate Starts for LordVader_81:

(10, 46533), (20, 46686), (Start: 24 @46743 has 22 MA's), (29, 46818), (40, 46950), (41, 46959), (44, 46980), (46, 47007), (47, 47010), (48, 47016), (52, 47088), (58, 47205), (59, 47280), (60, 47295), (63, 47388), (64, 47415), (72, 47661),

Gene: Lucky10_63 Start: 39691, Stop: 40488, Start Num: 24

Candidate Starts for Lucky10_63:

(16, 39604), (Start: 24 @39691 has 22 MA's), (27, 39745), (28, 39763), (39, 39889), (43, 39928), (48, 39967), (50, 40018), (53, 40039), (61, 40207),

Gene: Majeke_65 Start: 40807, Stop: 41697, Start Num: 24

Candidate Starts for Majeke_65:

(Start: 24 @40807 has 22 MA's), (32, 40909), (33, 40924), (34, 40939), (40, 41020), (51, 41143), (55, 41191), (59, 41293), (60, 41308), (63, 41404), (64, 41431), (66, 41452),

Gene: Mangethe_65 Start: 40807, Stop: 41697, Start Num: 24

Candidate Starts for Mangethe_65:

(Start: 24 @40807 has 22 MA's), (32, 40909), (33, 40924), (34, 40939), (40, 41020), (51, 41143), (55, 41191), (59, 41293), (60, 41308), (63, 41404), (64, 41431), (66, 41452),

Gene: Nazo_64 Start: 41628, Stop: 42524, Start Num: 24

Candidate Starts for Nazo_64:

(Start: 24 @41628 has 22 MA's), (29, 41703), (35, 41763), (36, 41778), (37, 41793), (39, 41826), (42, 41862), (43, 41865), (59, 42090), (60, 42105), (63, 42225), (64, 42252), (73, 42513),

Gene: ODay_96 Start: 51151, Stop: 51972, Start Num: 24

Candidate Starts for ODay_96:

(18, 51088), (Start: 24 @51151 has 22 MA's), (33, 51265), (37, 51316), (47, 51421), (61, 51661), (69, 51898),

Gene: PaintedDog_66 Start: 42497, Stop: 43360, Start Num: 24

Candidate Starts for PaintedDog_66:

(6, 42197), (11, 42287), (13, 42350), (14, 42353), (15, 42356), (Start: 24 @42497 has 22 MA's), (27, 42551), (29, 42572), (35, 42632), (36, 42647), (37, 42662), (39, 42695), (49, 42791), (53, 42845), (59, 42959), (60, 42974), (63, 43067), (64, 43094), (66, 43115), (72, 43343),

Gene: Panchino_57 Start: 39053, Stop: 39931, Start Num: 22

Candidate Starts for Panchino_57:

(12, 38876), (Start: 22 @39053 has 1 MA's), (Start: 24 @39059 has 22 MA's), (31, 39149), (34, 39191), (39, 39260), (40, 39272), (54, 39422), (56, 39449), (59, 39533), (60, 39548), (63, 39641), (64, 39668), (66, 39689), (72, 39914),

Gene: Phegasus_65 Start: 40774, Stop: 41664, Start Num: 24

Candidate Starts for Phegasus_65:

(Start: 24 @40774 has 22 MA's), (32, 40876), (33, 40891), (34, 40906), (40, 40987), (51, 41110), (55, 41158), (59, 41260), (60, 41275), (63, 41371), (64, 41398), (66, 41419),

Gene: Purky_75 Start: 45874, Stop: 46767, Start Num: 24

Candidate Starts for Purky_75:

(Start: 24 @45874 has 22 MA's), (29, 45949), (33, 45988), (35, 46009), (36, 46024), (37, 46039), (39, 46072), (59, 46336),

Gene: Stuck_75 Start: 48448, Stop: 49338, Start Num: 24

Candidate Starts for Stuck_75:

(Start: 24 @48448 has 22 MA's), (32, 48550), (33, 48565), (34, 48580), (40, 48661), (51, 48784), (55, 48832), (59, 48934), (60, 48949), (63, 49045), (64, 49072), (66, 49093),

Gene: Xavia_64 Start: 45674, Stop: 46540, Start Num: 24

Candidate Starts for Xavia_64:

(Start: 24 @45674 has 22 MA's), (29, 45749), (33, 45788), (35, 45809), (36, 45824), (37, 45839), (39, 45872), (48, 45950), (53, 46022), (59, 46136), (60, 46151), (63, 46247), (64, 46274), (66, 46295), (71, 46451),

Gene: Xeno_61 Start: 38162, Stop: 39100, Start Num: 24

Candidate Starts for Xeno_61:

(20, 38102), (Start: 24 @38162 has 22 MA's), (29, 38237), (40, 38369), (41, 38378), (44, 38399), (52, 38507), (57, 38591), (58, 38624), (59, 38699), (60, 38714), (63, 38807), (64, 38834), (66, 38855), (67, 38903),