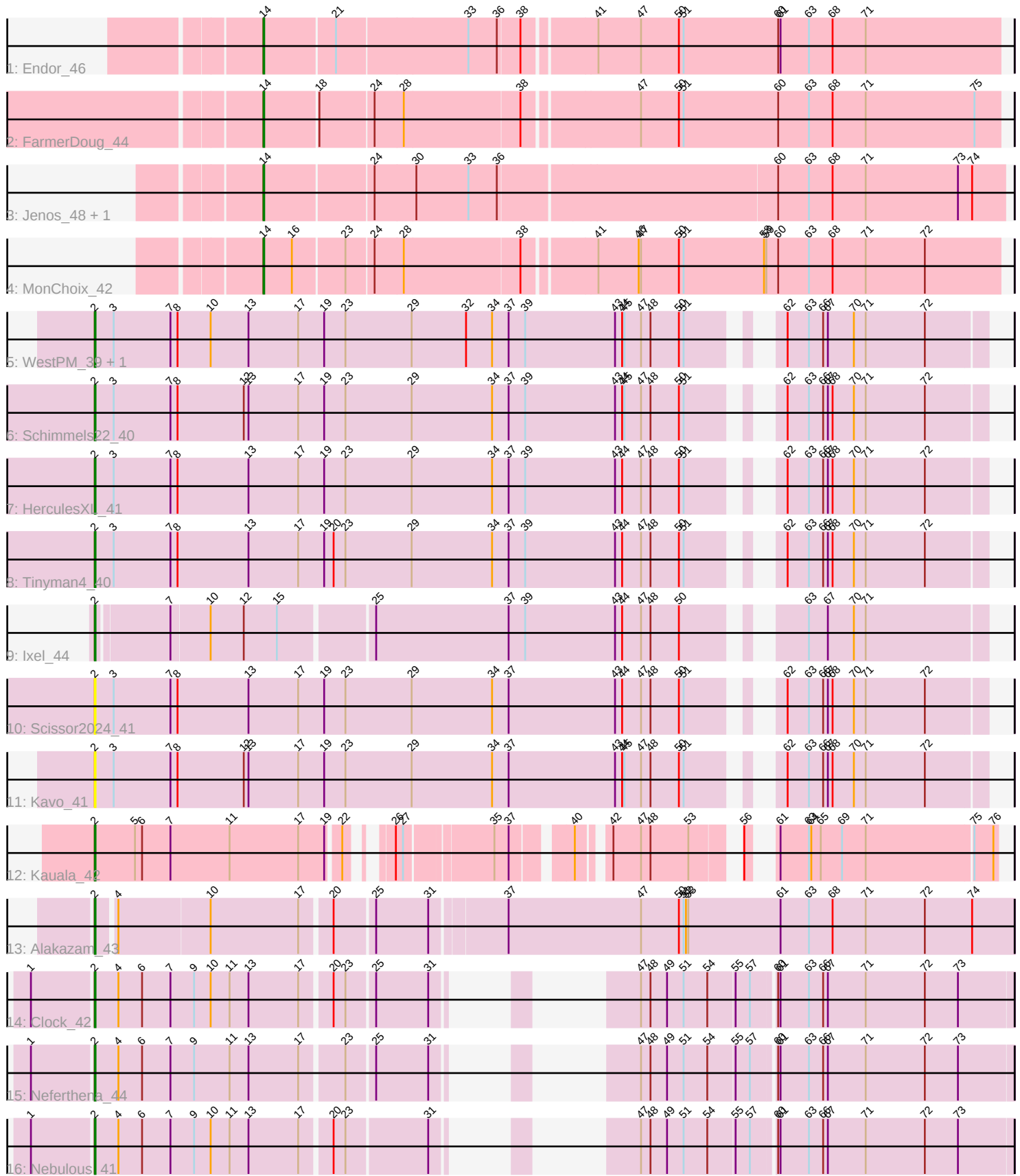


Pham 271030



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 271030 Report

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

Pham number 271030 has 18 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Endor_46
- Track 2 : FarmerDoug_44
- Track 3 : Jenos_48, CarisSwetlik_48
- Track 4 : MonChoix_42
- Track 5 : WestPM_39, Penta_39
- Track 6 : Schimmels22_40
- Track 7 : HerculesXL_41
- Track 8 : Tinyman4_40
- Track 9 : Ixel_44
- Track 10 : Scissor2024_41
- Track 11 : Kavo_41
- Track 12 : Kauala_42
- Track 13 : Alakazam_43
- Track 14 : Clock_42
- Track 15 : Neferthena_44
- Track 16 : Nebulous_41

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

The start number called the most often in the published annotations is 2, it was called in 10 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alakazam_43, Clock_42, HerculesXL_41, Ixel_44, Kauala_42, Kavo_41, Nebulous_41, Neferthena_44, Penta_39, Schimmels22_40, Scissor2024_41, Tinyman4_40, WestPM_39,

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

-

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

- CarisSwetlik_48, Endor_46, FarmerDoug_44, Jenos_48, MonChoix_42,

Summary by start number:

Start 2:

- Found in 13 of 18 (72.2%) of genes in pham
- Manual Annotations of this start: 10 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alakazam_43 (EA5), Clock_42 (EA5), HerculesXL_41 (EA11), Ixel_44 (EA11), Kauala_42 (EA4), Kavo_41 (EA11), Nebulous_41 (EA5), Neferthena_44 (EA5), Penta_39 (EA11), Schimmels22_40 (EA11), Scissor2024_41 (EA11), Tinyman4_40 (EA11), WestPM_39 (EA11),

Start 14:

- Found in 5 of 18 (27.8%) of genes in pham
- Manual Annotations of this start: 4 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CarisSwetlik_48 (EA1), Endor_46 (EA1), FarmerDoug_44 (EA1), Jenos_48 (EA1), MonChoix_42 (EA1),

Summary by clusters:

There are 4 clusters represented in this pham: EA1, EA11, EA5, EA4,

Info for manual annotations of cluster EA1:

- Start number 14 was manually annotated 4 times for cluster EA1.

Info for manual annotations of cluster EA11:

- Start number 2 was manually annotated 5 times for cluster EA11.

Info for manual annotations of cluster EA4:

- Start number 2 was manually annotated 1 time for cluster EA4.

Info for manual annotations of cluster EA5:

- Start number 2 was manually annotated 4 times for cluster EA5.

Gene Information:

Gene: Alakazam_43 Start: 32406, Stop: 31279, Start Num: 2

Candidate Starts for Alakazam_43:

(Start: 2 @32406 has 10 MA's), (4, 32385), (10, 32271), (17, 32160), (20, 32124), (25, 32076), (31, 32010), (37, 31920), (47, 31752), (50, 31704), (51, 31698), (52, 31695), (53, 31692), (61, 31575), (63, 31539), (68, 31509), (71, 31467), (72, 31392), (74, 31332),

Gene: CarisSwetlik_48 Start: 33613, Stop: 32699, Start Num: 14

Candidate Starts for CarisSwetlik_48:

(Start: 14 @33613 has 4 MA's), (24, 33481), (30, 33430), (33, 33364), (36, 33328), (60, 32986), (63, 32947), (68, 32917), (71, 32875), (73, 32758), (74, 32740),

Gene: Clock_42 Start: 33154, Stop: 32201, Start Num: 2

Candidate Starts for Clock_42:

(1, 33229), (Start: 2 @33154 has 10 MA's), (4, 33124), (6, 33094), (7, 33058), (9, 33028), (10, 33007), (11, 32983), (13, 32959), (17, 32896), (20, 32860), (23, 32845), (25, 32812), (31, 32746), (47, 32659), (48, 32647), (49, 32626), (51, 32605), (54, 32575), (55, 32542), (57, 32524), (60, 32497), (61, 32494),

(63, 32458), (66, 32440), (67, 32434), (71, 32386), (72, 32311), (73, 32269),

Gene: Endor_46 Start: 33281, Stop: 32376, Start Num: 14

Candidate Starts for Endor_46:

(Start: 14 @33281 has 4 MA's), (21, 33194), (33, 33032), (36, 32996), (38, 32969), (41, 32885), (47, 32831), (50, 32783), (51, 32777), (60, 32657), (61, 32654), (63, 32618), (68, 32588), (71, 32546),

Gene: FarmerDoug_44 Start: 32791, Stop: 31886, Start Num: 14

Candidate Starts for FarmerDoug_44:

(Start: 14 @32791 has 4 MA's), (18, 32725), (24, 32659), (28, 32623), (38, 32479), (47, 32341), (50, 32293), (51, 32287), (60, 32167), (63, 32128), (68, 32098), (71, 32056), (75, 31918),

Gene: HerculesXL_41 Start: 30550, Stop: 29477, Start Num: 2

Candidate Starts for HerculesXL_41:

(Start: 2 @30550 has 10 MA's), (3, 30526), (7, 30454), (8, 30445), (13, 30355), (17, 30292), (19, 30259), (23, 30232), (29, 30148), (34, 30046), (37, 30025), (39, 30004), (43, 29890), (44, 29881), (47, 29857), (48, 29845), (50, 29809), (51, 29803), (62, 29725), (63, 29698), (66, 29680), (67, 29674), (68, 29668), (70, 29641), (71, 29626), (72, 29551),

Gene: Ixel_44 Start: 32296, Stop: 31250, Start Num: 2

Candidate Starts for Ixel_44:

(Start: 2 @32296 has 10 MA's), (7, 32209), (10, 32161), (12, 32119), (15, 32077), (25, 31966), (37, 31798), (39, 31777), (43, 31663), (44, 31654), (47, 31630), (48, 31618), (50, 31582), (63, 31471), (67, 31447), (70, 31414), (71, 31399),

Gene: Jenos_48 Start: 33896, Stop: 32982, Start Num: 14

Candidate Starts for Jenos_48:

(Start: 14 @33896 has 4 MA's), (24, 33764), (30, 33713), (33, 33647), (36, 33611), (60, 33269), (63, 33230), (68, 33200), (71, 33158), (73, 33041), (74, 33023),

Gene: Kauala_42 Start: 32120, Stop: 31143, Start Num: 2

Candidate Starts for Kauala_42:

(Start: 2 @32120 has 10 MA's), (5, 32069), (6, 32060), (7, 32024), (11, 31949), (17, 31862), (19, 31829), (22, 31814), (26, 31784), (27, 31775), (35, 31673), (37, 31655), (40, 31592), (42, 31565), (47, 31532), (48, 31520), (53, 31472), (56, 31427), (61, 31412), (63, 31376), (64, 31373), (65, 31361), (69, 31334), (71, 31304), (75, 31172), (76, 31148),

Gene: Kavo_41 Start: 30672, Stop: 29599, Start Num: 2

Candidate Starts for Kavo_41:

(Start: 2 @30672 has 10 MA's), (3, 30648), (7, 30576), (8, 30567), (12, 30483), (13, 30477), (17, 30414), (19, 30381), (23, 30354), (29, 30270), (34, 30168), (37, 30147), (43, 30012), (44, 30003), (45, 30000), (47, 29979), (48, 29967), (50, 29931), (51, 29925), (62, 29847), (63, 29820), (66, 29802), (67, 29796), (68, 29790), (70, 29763), (71, 29748), (72, 29673),

Gene: MonChoix_42 Start: 32633, Stop: 31728, Start Num: 14

Candidate Starts for MonChoix_42:

(Start: 14 @32633 has 4 MA's), (16, 32597), (23, 32534), (24, 32501), (28, 32465), (38, 32321), (41, 32237), (46, 32186), (47, 32183), (50, 32135), (51, 32129), (58, 32027), (59, 32024), (60, 32009), (63, 31970), (68, 31940), (71, 31898), (72, 31823),

Gene: Nebulous_41 Start: 33335, Stop: 32382, Start Num: 2

Candidate Starts for Nebulous_41:

(1, 33410), (Start: 2 @33335 has 10 MA's), (4, 33305), (6, 33275), (7, 33239), (9, 33209), (10, 33188), (11, 33164), (13, 33140), (17, 33077), (20, 33041), (23, 33026), (31, 32927), (47, 32840), (48, 32828), (49, 32807), (51, 32786), (54, 32756), (55, 32723), (57, 32705), (60, 32678), (61, 32675), (63, 32639), (66, 32621), (67, 32615), (71, 32567), (72, 32492), (73, 32450),

Gene: Neferthena_44 Start: 32676, Stop: 31723, Start Num: 2

Candidate Starts for Neferthena_44:

(1, 32751), (Start: 2 @32676 has 10 MA's), (4, 32646), (6, 32616), (7, 32580), (9, 32550), (11, 32505), (13, 32481), (17, 32418), (23, 32367), (25, 32334), (31, 32268), (47, 32181), (48, 32169), (49, 32148), (51, 32127), (54, 32097), (55, 32064), (57, 32046), (60, 32019), (61, 32016), (63, 31980), (66, 31962), (67, 31956), (71, 31908), (72, 31833), (73, 31791),

Gene: Penta_39 Start: 30531, Stop: 29458, Start Num: 2

Candidate Starts for Penta_39:

(Start: 2 @30531 has 10 MA's), (3, 30507), (7, 30435), (8, 30426), (10, 30384), (13, 30336), (17, 30273), (19, 30240), (23, 30213), (29, 30129), (32, 30060), (34, 30027), (37, 30006), (39, 29985), (43, 29871), (44, 29862), (45, 29859), (47, 29838), (48, 29826), (50, 29790), (51, 29784), (62, 29706), (63, 29679), (66, 29661), (67, 29655), (70, 29622), (71, 29607), (72, 29532),

Gene: Schimmels22_40 Start: 30924, Stop: 29851, Start Num: 2

Candidate Starts for Schimmels22_40:

(Start: 2 @30924 has 10 MA's), (3, 30900), (7, 30828), (8, 30819), (12, 30735), (13, 30729), (17, 30666), (19, 30633), (23, 30606), (29, 30522), (34, 30420), (37, 30399), (39, 30378), (43, 30264), (44, 30255), (45, 30252), (47, 30231), (48, 30219), (50, 30183), (51, 30177), (62, 30099), (63, 30072), (66, 30054), (67, 30048), (68, 30042), (70, 30015), (71, 30000), (72, 29925),

Gene: Scissor2024_41 Start: 30571, Stop: 29498, Start Num: 2

Candidate Starts for Scissor2024_41:

(Start: 2 @30571 has 10 MA's), (3, 30547), (7, 30475), (8, 30466), (13, 30376), (17, 30313), (19, 30280), (23, 30253), (29, 30169), (34, 30067), (37, 30046), (43, 29911), (44, 29902), (47, 29878), (48, 29866), (50, 29830), (51, 29824), (62, 29746), (63, 29719), (66, 29701), (67, 29695), (68, 29689), (70, 29662), (71, 29647), (72, 29572),

Gene: Tinyman4_40 Start: 30550, Stop: 29477, Start Num: 2

Candidate Starts for Tinyman4_40:

(Start: 2 @30550 has 10 MA's), (3, 30526), (7, 30454), (8, 30445), (13, 30355), (17, 30292), (19, 30259), (20, 30247), (23, 30232), (29, 30148), (34, 30046), (37, 30025), (39, 30004), (43, 29890), (44, 29881), (47, 29857), (48, 29845), (50, 29809), (51, 29803), (62, 29725), (63, 29698), (66, 29680), (67, 29674), (68, 29668), (70, 29641), (71, 29626), (72, 29551),

Gene: WestPM_39 Start: 30694, Stop: 29621, Start Num: 2

Candidate Starts for WestPM_39:

(Start: 2 @30694 has 10 MA's), (3, 30670), (7, 30598), (8, 30589), (10, 30547), (13, 30499), (17, 30436), (19, 30403), (23, 30376), (29, 30292), (32, 30223), (34, 30190), (37, 30169), (39, 30148), (43, 30034), (44, 30025), (45, 30022), (47, 30001), (48, 29989), (50, 29953), (51, 29947), (62, 29869), (63, 29842), (66, 29824), (67, 29818), (70, 29785), (71, 29770), (72, 29695),