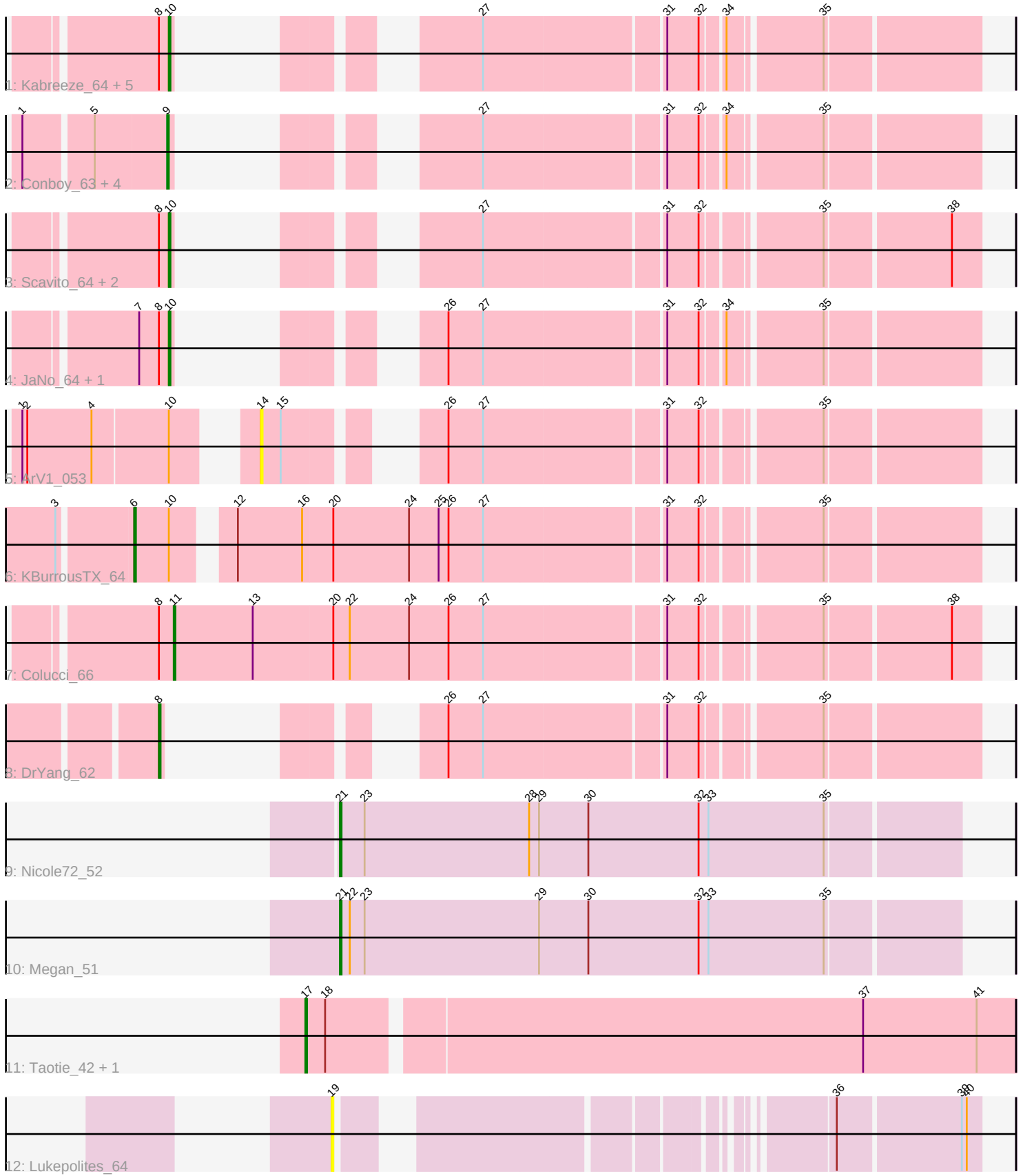


Pham 329366



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 329366 Report

This analysis was run 09/05/26 on database version 662.

Pham number 329366 has 25 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Kabreeze_64, Chocolat_64, Chubster_65, MoyaNatalis_64, HumptyDumpty_64, Linus_64
- Track 2 : Conboy_63, Tophat_64, PrincessTrina_64, EdgarPoe_63, Chipper1996_640
- Track 3 : Scavito_64, RosiePosie_63, JayCookie_65
- Track 4 : JaNo_64, Mordred_64
- Track 5 : ArV1_053
- Track 6 : KBurrousTX_64
- Track 7 : Colucci_66
- Track 8 : DrYang_62
- Track 9 : Nicole72_52
- Track 10 : Megan_51
- Track 11 : Taotie_42, PSonyx_44
- Track 12 : Lukepolites_64

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

The start number called the most often in the published annotations is 10, it was called in 10 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chocolat_64, Chubster_65, HumptyDumpty_64, JaNo_64, JayCookie_65, Kabreeze_64, Linus_64, Mordred_64, MoyaNatalis_64, RosiePosie_63, Scavito_64,

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

- ArV1_053, KBurrousTX_64,

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

- Chipper1996_640, Colucci_66, Conboy_63, DrYang_62, EdgarPoe_63, Lukepolites_64, Megan_51, Nicole72_52, PSonyx_44, PrincessTrina_64, Taotie_42, Tophat_64,

Summary by start number:

Start 6:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KBurrousTX_64 (AR),

Start 8:

- Found in 13 of 25 (52.0%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 7.7% of time when present
- Phage (with cluster) where this start called: DrYang_62 (AR),

Start 9:

- Found in 5 of 25 (20.0%) of genes in pham
- Manual Annotations of this start: 5 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chipper1996_640 (AR), Conboy_63 (AR), EdgarPoe_63 (AR), PrincessTrina_64 (AR), Tophat_64 (AR),

Start 10:

- Found in 13 of 25 (52.0%) of genes in pham
- Manual Annotations of this start: 10 of 21
- Called 84.6% of time when present
- Phage (with cluster) where this start called: Chocolat_64 (AR), Chubster_65 (AR), HumptyDumpty_64 (AR), JaNo_64 (AR), JayCookie_65 (AR), Kabreeze_64 (AR), Linus_64 (AR), Mordred_64 (AR), MoyaNatalis_64 (AR), RosiePosie_63 (AR), Scavito_64 (AR),

Start 11:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Colucci_66 (AR),

Start 14:

- Found in 1 of 25 (4.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV1_053 (AR),

Start 17:

- Found in 2 of 25 (8.0%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PSonyx_44 (EQ), Taotie_42 (EQ),

Start 19:

- Found in 1 of 25 (4.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lukepolites_64 (singleton),

Start 21:

- Found in 2 of 25 (8.0%) of genes in pham
- Manual Annotations of this start: 2 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Megan_51 (EC), Nicole72_52 (EC),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, AR, EQ, EC,

Info for manual annotations of cluster AR:

- Start number 6 was manually annotated 1 time for cluster AR.
- Start number 8 was manually annotated 1 time for cluster AR.
- Start number 9 was manually annotated 5 times for cluster AR.
- Start number 10 was manually annotated 10 times for cluster AR.
- Start number 11 was manually annotated 1 time for cluster AR.

Info for manual annotations of cluster EC:

- Start number 21 was manually annotated 2 times for cluster EC.

Info for manual annotations of cluster EQ:

- Start number 17 was manually annotated 1 time for cluster EQ.

Gene Information:

Gene: ArV1_053 Start: 43867, Stop: 44235, Start Num: 14

Candidate Starts for ArV1_053:

(1, 43750), (2, 43753), (4, 43792), (Start: 10 @43837 has 10 MA's), (14, 43867), (15, 43879), (26, 43942), (27, 43963), (31, 44065), (32, 44083), (35, 44146),

Gene: Chipper1996_640 Start: 44938, Stop: 45300, Start Num: 9

Candidate Starts for Chipper1996_640:

(1, 44857), (5, 44896), (Start: 9 @44938 has 5 MA's), (27, 45028), (31, 45130), (32, 45148), (34, 45160), (35, 45211),

Gene: Chocolat_64 Start: 44963, Stop: 45325, Start Num: 10

Candidate Starts for Chocolat_64:

(Start: 8 @44957 has 1 MA's), (Start: 10 @44963 has 10 MA's), (27, 45053), (31, 45155), (32, 45173), (34, 45185), (35, 45236),

Gene: Chubster_65 Start: 45115, Stop: 45477, Start Num: 10

Candidate Starts for Chubster_65:

(Start: 8 @45109 has 1 MA's), (Start: 10 @45115 has 10 MA's), (27, 45205), (31, 45307), (32, 45325), (34, 45337), (35, 45388),

Gene: Colucci_66 Start: 45022, Stop: 45480, Start Num: 11

Candidate Starts for Colucci_66:

(Start: 8 @45013 has 1 MA's), (Start: 11 @45022 has 1 MA's), (13, 45070), (20, 45118), (22, 45127), (24, 45163), (26, 45187), (27, 45208), (31, 45310), (32, 45328), (35, 45391), (38, 45463),

Gene: Conboy_63 Start: 44802, Stop: 45164, Start Num: 9

Candidate Starts for Conboy_63:

(1, 44721), (5, 44760), (Start: 9 @44802 has 5 MA's), (27, 44892), (31, 44994), (32, 45012), (34, 45024), (35, 45075),

Gene: DrYang_62 Start: 46373, Stop: 46732, Start Num: 8

Candidate Starts for DrYang_62:

(Start: 8 @46373 has 1 MA's), (26, 46439), (27, 46460), (31, 46562), (32, 46580), (35, 46643),

Gene: EdgarPoe_63 Start: 44802, Stop: 45164, Start Num: 9

Candidate Starts for EdgarPoe_63:

(1, 44721), (5, 44760), (Start: 9 @44802 has 5 MA's), (27, 44892), (31, 44994), (32, 45012), (34, 45024), (35, 45075),

Gene: HumptyDumpty_64 Start: 44902, Stop: 45264, Start Num: 10

Candidate Starts for HumptyDumpty_64:

(Start: 8 @44896 has 1 MA's), (Start: 10 @44902 has 10 MA's), (27, 44992), (31, 45094), (32, 45112), (34, 45124), (35, 45175),

Gene: JaNo_64 Start: 45024, Stop: 45386, Start Num: 10

Candidate Starts for JaNo_64:

(7, 45006), (Start: 8 @45018 has 1 MA's), (Start: 10 @45024 has 10 MA's), (26, 45093), (27, 45114), (31, 45216), (32, 45234), (34, 45246), (35, 45297),

Gene: JayCookie_65 Start: 45374, Stop: 45736, Start Num: 10

Candidate Starts for JayCookie_65:

(Start: 8 @45368 has 1 MA's), (Start: 10 @45374 has 10 MA's), (27, 45464), (31, 45566), (32, 45584), (35, 45647), (38, 45719),

Gene: KBurrousTX_64 Start: 46336, Stop: 46803, Start Num: 6

Candidate Starts for KBurrousTX_64:

(3, 46294), (Start: 6 @46336 has 1 MA's), (Start: 10 @46357 has 10 MA's), (12, 46384), (16, 46423), (20, 46441), (24, 46486), (25, 46504), (26, 46510), (27, 46531), (31, 46633), (32, 46651), (35, 46714),

Gene: Kabreeze_64 Start: 44981, Stop: 45343, Start Num: 10

Candidate Starts for Kabreeze_64:

(Start: 8 @44975 has 1 MA's), (Start: 10 @44981 has 10 MA's), (27, 45071), (31, 45173), (32, 45191), (34, 45203), (35, 45254),

Gene: Linus_64 Start: 45104, Stop: 45466, Start Num: 10

Candidate Starts for Linus_64:

(Start: 8 @45098 has 1 MA's), (Start: 10 @45104 has 10 MA's), (27, 45194), (31, 45296), (32, 45314), (34, 45326), (35, 45377),

Gene: Lukepolites_64 Start: 42768, Stop: 42448, Start Num: 19

Candidate Starts for Lukepolites_64:

(19, 42768), (36, 42531), (39, 42459), (40, 42456),

Gene: Megan_51 Start: 38900, Stop: 39268, Start Num: 21

Candidate Starts for Megan_51:

(Start: 21 @38900 has 2 MA's), (22, 38906), (23, 38915), (29, 39020), (30, 39050), (32, 39116), (33, 39122), (35, 39191),

Gene: Mordred_64 Start: 45018, Stop: 45380, Start Num: 10

Candidate Starts for Mordred_64:

(7, 45000), (Start: 8 @45012 has 1 MA's), (Start: 10 @45018 has 10 MA's), (26, 45087), (27, 45108), (31, 45210), (32, 45228), (34, 45240), (35, 45291),

Gene: MoyaNatalis_64 Start: 44950, Stop: 45312, Start Num: 10

Candidate Starts for MoyaNatalis_64:

(Start: 8 @44944 has 1 MA's), (Start: 10 @44950 has 10 MA's), (27, 45040), (31, 45142), (32, 45160), (34, 45172), (35, 45223),

Gene: Nicole72_52 Start: 39527, Stop: 39895, Start Num: 21

Candidate Starts for Nicole72_52:

(Start: 21 @39527 has 2 MA's), (23, 39542), (28, 39641), (29, 39647), (30, 39677), (32, 39743), (33, 39749), (35, 39818),

Gene: PSonyx_44 Start: 33480, Stop: 33061, Start Num: 17

Candidate Starts for PSonyx_44:

(Start: 17 @33480 has 1 MA's), (18, 33468), (37, 33153), (41, 33084),

Gene: PrincessTrina_64 Start: 45006, Stop: 45368, Start Num: 9

Candidate Starts for PrincessTrina_64:

(1, 44925), (5, 44964), (Start: 9 @45006 has 5 MA's), (27, 45096), (31, 45198), (32, 45216), (34, 45228), (35, 45279),

Gene: RosiePosie_63 Start: 44640, Stop: 45002, Start Num: 10

Candidate Starts for RosiePosie_63:

(Start: 8 @44634 has 1 MA's), (Start: 10 @44640 has 10 MA's), (27, 44730), (31, 44832), (32, 44850), (35, 44913), (38, 44985),

Gene: Scavito_64 Start: 44915, Stop: 45277, Start Num: 10

Candidate Starts for Scavito_64:

(Start: 8 @44909 has 1 MA's), (Start: 10 @44915 has 10 MA's), (27, 45005), (31, 45107), (32, 45125), (35, 45188), (38, 45260),

Gene: Taotie_42 Start: 31071, Stop: 30652, Start Num: 17

Candidate Starts for Taotie_42:

(Start: 17 @31071 has 1 MA's), (18, 31059), (37, 30744), (41, 30675),

Gene: Tophat_64 Start: 44939, Stop: 45301, Start Num: 9

Candidate Starts for Tophat_64:

(1, 44858), (5, 44897), (Start: 9 @44939 has 5 MA's), (27, 45029), (31, 45131), (32, 45149), (34, 45161), (35, 45212),