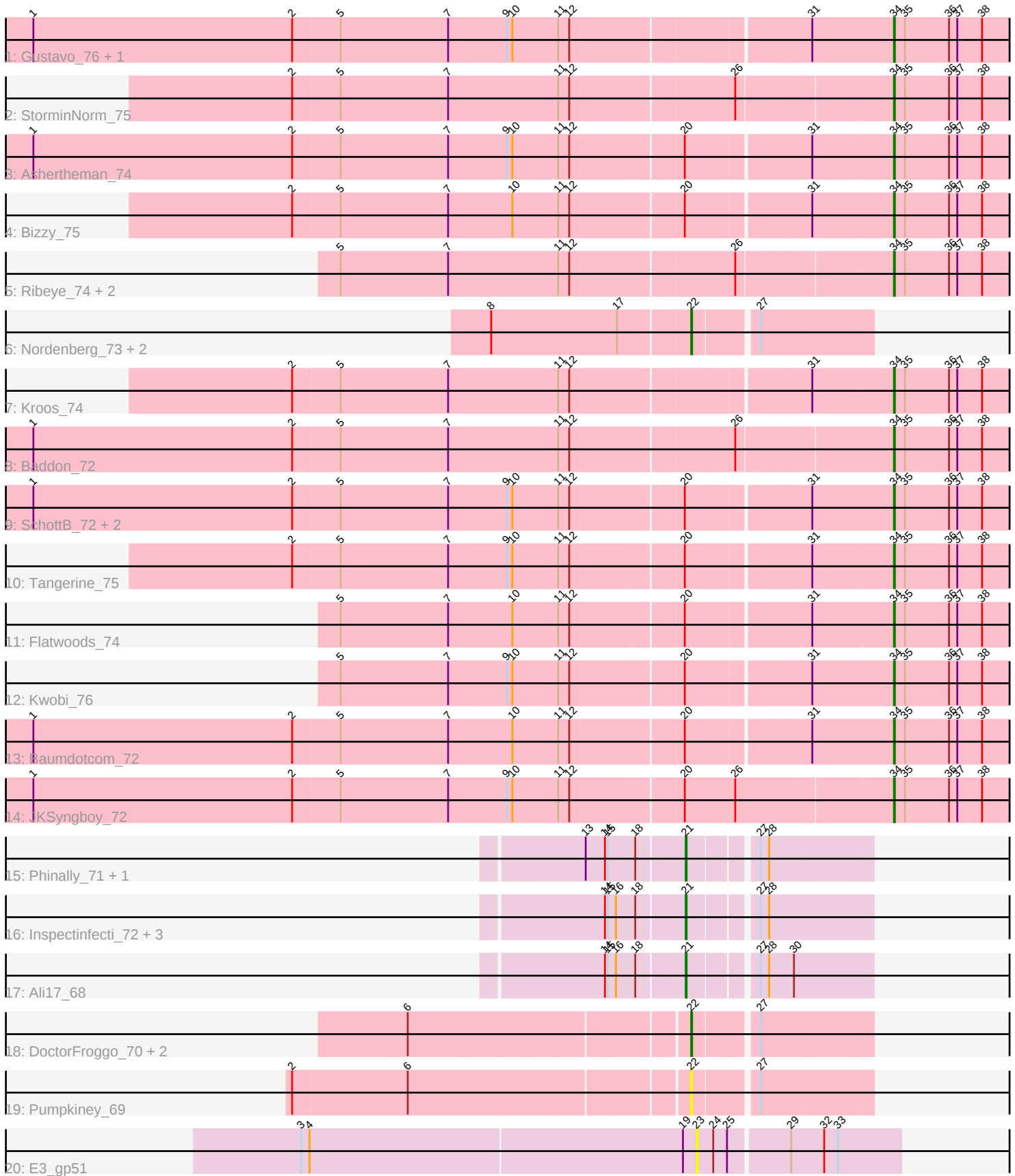


Pham 276386



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 276386 Report

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

Pham number 276386 has 33 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Gustavo_76, Saronaya_76
- Track 2 : StorminNorm_75
- Track 3 : Ashertheman_74
- Track 4 : Bizzy_75
- Track 5 : Ribeye_74, Derg_68, Tycho_73
- Track 6 : Nordenberg_73, Kewpiedoll_73, Love_79
- Track 7 : Kroos_74
- Track 8 : Baddon_72
- Track 9 : SchottB_72, Gaea_75, LilHam_68
- Track 10 : Tangerine_75
- Track 11 : Flatwoods_74
- Track 12 : Kwobi_76
- Track 13 : Baumdotcom_72
- Track 14 : JKSyngboy_72
- Track 15 : Phinally_71, Leonard_71
- Track 16 : Inspectinfecti_72, Hans_72, MelBins_73, Phauci_63
- Track 17 : Ali17_68
- Track 18 : DoctorFroggo_70, Delrey21_70, Verity_70
- Track 19 : Pumpkiney_69
- Track 20 : E3_gp51

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

The start number called the most often in the published annotations is 34, it was called in 17 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ashertheman_74, Baddon_72, Baumdotcom_72, Bizzy_75, Derg_68, Flatwoods_74, Gaea_75, Gustavo_76, JKSyngboy_72, Kroos_74, Kwobi_76, LilHam_68, Ribeye_74, Saronaya_76, SchottB_72, StorminNorm_75, Tangerine_75, Tycho_73,

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

-

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

- Ali17_68, Delrey21_70, DoctorFroggo_70, E3_gp51, Hans_72, Inspectinfecti_72, Kewpiedoll_73, Leonard_71, Love_79, MelBins_73, Nordenberg_73, Phauci_63, Phinally_71, Pumpkiney_69, Verity_70,

Summary by start number:

Start 21:

- Found in 7 of 33 (21.2%) of genes in pham
- Manual Annotations of this start: 7 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ali17_68 (DE2), Hans_72 (DE2), Inspectinfecti_72 (DE2), Leonard_71 (DE2), MelBins_73 (DE2), Phauci_63 (DE2), Phinally_71 (DE2),

Start 22:

- Found in 7 of 33 (21.2%) of genes in pham
- Manual Annotations of this start: 6 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Delrey21_70 (DE4), DoctorFroggo_70 (DE4), Kewpiedoll_73 (DE1), Love_79 (DE1), Nordenberg_73 (DE1), Pumpkiney_69 (DE4), Verity_70 (DE4),

Start 23:

- Found in 1 of 33 (3.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: E3_gp51 (singleton),

Start 34:

- Found in 18 of 33 (54.5%) of genes in pham
- Manual Annotations of this start: 17 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ashertheman_74 (DE1), Baddon_72 (DE1), Baumdotcom_72 (DE1), Bizzy_75 (DE1), Derg_68 (DE1), Flatwoods_74 (DE1), Gaea_75 (DE1), Gustavo_76 (DE1), JKSyngboy_72 (DE1), Kroos_74 (DE1), Kwobi_76 (DE1), LilHam_68 (DE1), Ribeye_74 (DE1), Saronaya_76 (DE1), SchottB_72 (DE1), StorminNorm_75 (DE1), Tangerine_75 (DE1), Tycho_73 (DE1),

Summary by clusters:

There are 4 clusters represented in this pham: DE1, DE2, DE4, singleton,

Info for manual annotations of cluster DE1:

- Start number 22 was manually annotated 3 times for cluster DE1.
- Start number 34 was manually annotated 17 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 21 was manually annotated 7 times for cluster DE2.

Info for manual annotations of cluster DE4:

- Start number 22 was manually annotated 3 times for cluster DE4.

Gene Information:

Gene: Ali17_68 Start: 52431, Stop: 52613, Start Num: 21

Candidate Starts for Ali17_68:

(14, 52350), (15, 52353), (16, 52362), (18, 52380), (Start: 21 @52431 has 7 MA's), (27, 52497), (28, 52506), (30, 52533),

Gene: Ashertheman_74 Start: 53819, Stop: 53995, Start Num: 34

Candidate Starts for Ashertheman_74:

(1, 52913), (2, 53195), (5, 53246), (7, 53363), (9, 53426), (10, 53432), (11, 53480), (12, 53492), (20, 53609), (31, 53732), (Start: 34 @53819 has 17 MA's), (35, 53831), (36, 53879), (37, 53888), (38, 53915),

Gene: Baddon_72 Start: 54474, Stop: 54650, Start Num: 34

Candidate Starts for Baddon_72:

(1, 53565), (2, 53847), (5, 53898), (7, 54015), (11, 54132), (12, 54144), (26, 54315), (Start: 34 @54474 has 17 MA's), (35, 54486), (36, 54534), (37, 54543), (38, 54570),

Gene: Baumdotcom_72 Start: 53790, Stop: 53966, Start Num: 34

Candidate Starts for Baumdotcom_72:

(1, 52884), (2, 53166), (5, 53217), (7, 53334), (10, 53403), (11, 53451), (12, 53463), (20, 53580), (31, 53703), (Start: 34 @53790 has 17 MA's), (35, 53802), (36, 53850), (37, 53859), (38, 53886),

Gene: Bizzy_75 Start: 53703, Stop: 53879, Start Num: 34

Candidate Starts for Bizzy_75:

(2, 53079), (5, 53130), (7, 53247), (10, 53316), (11, 53364), (12, 53376), (20, 53493), (31, 53616), (Start: 34 @53703 has 17 MA's), (35, 53715), (36, 53763), (37, 53772), (38, 53799),

Gene: Delrey21_70 Start: 54579, Stop: 54758, Start Num: 22

Candidate Starts for Delrey21_70:

(6, 54291), (Start: 22 @54579 has 6 MA's), (27, 54642),

Gene: Derg_68 Start: 52506, Stop: 52682, Start Num: 34

Candidate Starts for Derg_68:

(5, 51930), (7, 52047), (11, 52164), (12, 52176), (26, 52347), (Start: 34 @52506 has 17 MA's), (35, 52518), (36, 52566), (37, 52575), (38, 52602),

Gene: DoctorFroggo_70 Start: 54579, Stop: 54758, Start Num: 22

Candidate Starts for DoctorFroggo_70:

(6, 54291), (Start: 22 @54579 has 6 MA's), (27, 54642),

Gene: E3_gp51 Start: 21620, Stop: 21835, Start Num: 23

Candidate Starts for E3_gp51:

(3, 21194), (4, 21203), (19, 21605), (23, 21620), (24, 21638), (25, 21653), (29, 21716), (32, 21752), (33, 21767),

Gene: Flatwoods_74 Start: 53012, Stop: 53188, Start Num: 34

Candidate Starts for Flatwoods_74:

(5, 52439), (7, 52556), (10, 52625), (11, 52673), (12, 52685), (20, 52802), (31, 52925), (Start: 34 @53012 has 17 MA's), (35, 53024), (36, 53072), (37, 53081), (38, 53108),

Gene: Gaea_75 Start: 53599, Stop: 53775, Start Num: 34

Candidate Starts for Gaea_75:

(1, 52693), (2, 52975), (5, 53026), (7, 53143), (9, 53206), (10, 53212), (11, 53260), (12, 53272), (20, 53389), (31, 53512), (Start: 34 @53599 has 17 MA's), (35, 53611), (36, 53659), (37, 53668), (38, 53695),

Gene: Gustavo_76 Start: 54584, Stop: 54760, Start Num: 34

Candidate Starts for Gustavo_76:

(1, 53678), (2, 53960), (5, 54011), (7, 54128), (9, 54191), (10, 54197), (11, 54245), (12, 54257), (31, 54497), (Start: 34 @54584 has 17 MA's), (35, 54596), (36, 54644), (37, 54653), (38, 54680),

Gene: Hans_72 Start: 53304, Stop: 53486, Start Num: 21

Candidate Starts for Hans_72:

(14, 53223), (15, 53226), (16, 53235), (18, 53253), (Start: 21 @53304 has 7 MA's), (27, 53370), (28, 53379),

Gene: Inspectinfecti_72 Start: 53275, Stop: 53457, Start Num: 21

Candidate Starts for Inspectinfecti_72:

(14, 53194), (15, 53197), (16, 53206), (18, 53224), (Start: 21 @53275 has 7 MA's), (27, 53341), (28, 53350),

Gene: JKSyngboy_72 Start: 54498, Stop: 54674, Start Num: 34

Candidate Starts for JKSyngboy_72:

(1, 53586), (2, 53868), (5, 53919), (7, 54036), (9, 54099), (10, 54105), (11, 54153), (12, 54165), (20, 54282), (26, 54336), (Start: 34 @54498 has 17 MA's), (35, 54510), (36, 54558), (37, 54567), (38, 54594),

Gene: Kewpiedoll_73 Start: 55399, Stop: 55578, Start Num: 22

Candidate Starts for Kewpiedoll_73:

(8, 55192), (17, 55327), (Start: 22 @55399 has 6 MA's), (27, 55462),

Gene: Kroos_74 Start: 54138, Stop: 54314, Start Num: 34

Candidate Starts for Kroos_74:

(2, 53514), (5, 53565), (7, 53682), (11, 53799), (12, 53811), (31, 54051), (Start: 34 @54138 has 17 MA's), (35, 54150), (36, 54198), (37, 54207), (38, 54234),

Gene: Kwobi_76 Start: 54403, Stop: 54579, Start Num: 34

Candidate Starts for Kwobi_76:

(5, 53830), (7, 53947), (9, 54010), (10, 54016), (11, 54064), (12, 54076), (20, 54193), (31, 54316), (Start: 34 @54403 has 17 MA's), (35, 54415), (36, 54463), (37, 54472), (38, 54499),

Gene: Leonard_71 Start: 53338, Stop: 53520, Start Num: 21

Candidate Starts for Leonard_71:

(13, 53236), (14, 53257), (15, 53260), (18, 53287), (Start: 21 @53338 has 7 MA's), (27, 53404), (28, 53413),

Gene: LilHam_68 Start: 51485, Stop: 51661, Start Num: 34

Candidate Starts for LilHam_68:

(1, 50579), (2, 50861), (5, 50912), (7, 51029), (9, 51092), (10, 51098), (11, 51146), (12, 51158), (20, 51275), (31, 51398), (Start: 34 @51485 has 17 MA's), (35, 51497), (36, 51545), (37, 51554), (38, 51581),

Gene: Love_79 Start: 55868, Stop: 56047, Start Num: 22
Candidate Starts for Love_79:
(8, 55661), (17, 55796), (Start: 22 @55868 has 6 MA's), (27, 55931),

Gene: MelBins_73 Start: 53546, Stop: 53728, Start Num: 21
Candidate Starts for MelBins_73:
(14, 53465), (15, 53468), (16, 53477), (18, 53495), (Start: 21 @53546 has 7 MA's), (27, 53612), (28, 53621),

Gene: Nordenberg_73 Start: 54049, Stop: 54228, Start Num: 22
Candidate Starts for Nordenberg_73:
(8, 53842), (17, 53977), (Start: 22 @54049 has 6 MA's), (27, 54112),

Gene: Phauci_63 Start: 50381, Stop: 50563, Start Num: 21
Candidate Starts for Phauci_63:
(14, 50300), (15, 50303), (16, 50312), (18, 50330), (Start: 21 @50381 has 7 MA's), (27, 50447), (28, 50456),

Gene: Phinally_71 Start: 53335, Stop: 53517, Start Num: 21
Candidate Starts for Phinally_71:
(13, 53233), (14, 53254), (15, 53257), (18, 53284), (Start: 21 @53335 has 7 MA's), (27, 53401), (28, 53410),

Gene: Pumpkiney_69 Start: 51602, Stop: 51781, Start Num: 22
Candidate Starts for Pumpkiney_69:
(2, 51191), (6, 51314), (Start: 22 @51602 has 6 MA's), (27, 51665),

Gene: Ribeye_74 Start: 53745, Stop: 53921, Start Num: 34
Candidate Starts for Ribeye_74:
(5, 53169), (7, 53286), (11, 53403), (12, 53415), (26, 53586), (Start: 34 @53745 has 17 MA's), (35, 53757), (36, 53805), (37, 53814), (38, 53841),

Gene: Saronaya_76 Start: 54584, Stop: 54760, Start Num: 34
Candidate Starts for Saronaya_76:
(1, 53678), (2, 53960), (5, 54011), (7, 54128), (9, 54191), (10, 54197), (11, 54245), (12, 54257), (31, 54497), (Start: 34 @54584 has 17 MA's), (35, 54596), (36, 54644), (37, 54653), (38, 54680),

Gene: SchottB_72 Start: 54205, Stop: 54381, Start Num: 34
Candidate Starts for SchottB_72:
(1, 53299), (2, 53581), (5, 53632), (7, 53749), (9, 53812), (10, 53818), (11, 53866), (12, 53878), (20, 53995), (31, 54118), (Start: 34 @54205 has 17 MA's), (35, 54217), (36, 54265), (37, 54274), (38, 54301),

Gene: StorminNorm_75 Start: 54375, Stop: 54551, Start Num: 34
Candidate Starts for StorminNorm_75:
(2, 53748), (5, 53799), (7, 53916), (11, 54033), (12, 54045), (26, 54216), (Start: 34 @54375 has 17 MA's), (35, 54387), (36, 54435), (37, 54444), (38, 54471),

Gene: Tangerine_75 Start: 53878, Stop: 54054, Start Num: 34
Candidate Starts for Tangerine_75:
(2, 53254), (5, 53305), (7, 53422), (9, 53485), (10, 53491), (11, 53539), (12, 53551), (20, 53668), (31, 53791), (Start: 34 @53878 has 17 MA's), (35, 53890), (36, 53938), (37, 53947), (38, 53974),

Gene: Tycho_73 Start: 53694, Stop: 53870, Start Num: 34

Candidate Starts for Tycho_73:

(5, 53118), (7, 53235), (11, 53352), (12, 53364), (26, 53535), (Start: 34 @53694 has 17 MA's), (35, 53706), (36, 53754), (37, 53763), (38, 53790),

Gene: Verity_70 Start: 54579, Stop: 54758, Start Num: 22

Candidate Starts for Verity_70:

(6, 54291), (Start: 22 @54579 has 6 MA's), (27, 54642),