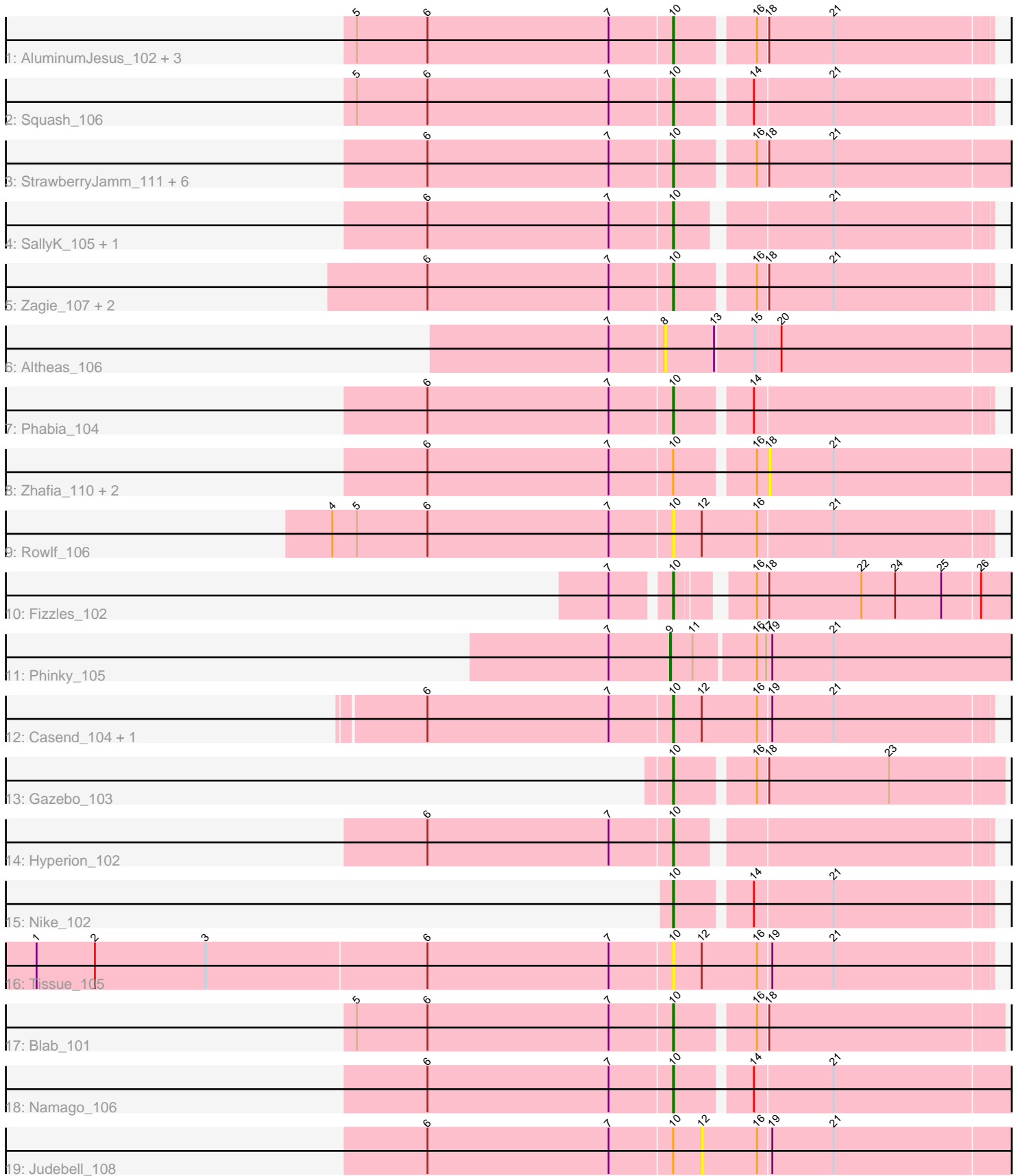


Pham 163790



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 163790 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163790 has 34 members, 9 are drafts.

Phages represented in each track:

- Track 1 : AluminumJesus_102, Rudy_103, Sillytadpoles_108, Quammi_105
- Track 2 : Squash_106
- Track 3 : StrawberryJamm_111, Viceroy_104, Wheelie_104, Teehee_104, Wayne3_106, Lonelysoil_103, Jehoshaphat_105
- Track 4 : SallyK_105, Mashley_102
- Track 5 : Zagie_107, Grassboy_110, Kyva_110
- Track 6 : Altheas_106
- Track 7 : Phabia_104
- Track 8 : Zhafia_110, Llemily_106, DonaldDuck_106
- Track 9 : Rowlf_106
- Track 10 : Fizzles_102
- Track 11 : Phinky_105
- Track 12 : Casend_104, BabyDotz_102
- Track 13 : Gazebo_103
- Track 14 : Hyperion_102
- Track 15 : Nike_102
- Track 16 : Tissue_105
- Track 17 : Blab_101
- Track 18 : Namago_106
- Track 19 : Judebell_108

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 24 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AluminumJesus_102, BabyDotz_102, Blab_101, Casend_104, Fizzles_102, Gazebo_103, Grassboy_110, Hyperion_102, Jehoshaphat_105, Kyva_110, Lonelysoil_103, Mashley_102, Namago_106, Nike_102, Phabia_104, Quammi_105, Rowlf_106, Rudy_103, SallyK_105, Sillytadpoles_108, Squash_106, StrawberryJamm_111, Teehee_104, Tissue_105, Viceroy_104, Wayne3_106, Wheelie_104, Zagie_107,

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

- DonaldDuck_106, Judebell_108, Llemily_106, Zhafia_110,

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

- Altheas_106, Phinky_105,

Summary by start number:

Start 8:

- Found in 1 of 34 (2.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altheas_106 (EG),

Start 9:

- Found in 1 of 34 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phinky_105 (EG),

Start 10:

- Found in 32 of 34 (94.1%) of genes in pham
- Manual Annotations of this start: 24 of 25
- Called 87.5% of time when present
- Phage (with cluster) where this start called: AluminumJesus_102 (EG), BabyDotz_102 (EG), Blab_101 (EG), Casend_104 (EG), Fizzles_102 (EG), Gazebo_103 (EG), Grassboy_110 (EG), Hyperion_102 (EG), Jehoshaphat_105 (EG), Kyva_110 (EG), Lonelysoil_103 (EG), Mashley_102 (EG), Namago_106 (EG), Nike_102 (EG), Phabia_104 (EG), Quammi_105 (EG), Rowlf_106 (EG), Rudy_103 (EG), SallyK_105 (EG), Sillytadpoles_108 (EG), Squash_106 (EG), StrawberryJamm_111 (EG), Teehee_104 (EG), Tissue_105 (EG), Viceroy_104 (EG), Wayne3_106 (EG), Wheelie_104 (EG), Zagie_107 (EG),

Start 12:

- Found in 5 of 34 (14.7%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Judebell_108 (EG),

Start 18:

- Found in 20 of 34 (58.8%) of genes in pham
- No Manual Annotations of this start.
- Called 15.0% of time when present
- Phage (with cluster) where this start called: DonaldDuck_106 (EG), Llemily_106 (EG), Zhafia_110 (EG),

Summary by clusters:

There is one cluster represented in this pham: EG

Info for manual annotations of cluster EG:

- Start number 9 was manually annotated 1 time for cluster EG.
- Start number 10 was manually annotated 24 times for cluster EG.

Gene Information:

Gene: Altheas_106 Start: 61464, Stop: 61135, Start Num: 8

Candidate Starts for Altheas_106:

(7, 61515), (8, 61464), (13, 61416), (15, 61380), (20, 61356),

Gene: AluminumJesus_102 Start: 60641, Stop: 60351, Start Num: 10

Candidate Starts for AluminumJesus_102:

(5, 60947), (6, 60878), (7, 60701), (Start: 10 @60641 has 24 MA's), (16, 60572), (18, 60563), (21, 60500),

Gene: BabyDotz_102 Start: 61777, Stop: 61475, Start Num: 10

Candidate Starts for BabyDotz_102:

(6, 62014), (7, 61837), (Start: 10 @61777 has 24 MA's), (12, 61750), (16, 61696), (19, 61684), (21, 61624),

Gene: Blab_101 Start: 60867, Stop: 60565, Start Num: 10

Candidate Starts for Blab_101:

(5, 61173), (6, 61104), (7, 60927), (Start: 10 @60867 has 24 MA's), (16, 60798), (18, 60789),

Gene: Casend_104 Start: 61175, Stop: 60873, Start Num: 10

Candidate Starts for Casend_104:

(6, 61412), (7, 61235), (Start: 10 @61175 has 24 MA's), (12, 61148), (16, 61094), (19, 61082), (21, 61022),

Gene: DonaldDuck_106 Start: 60451, Stop: 60218, Start Num: 18

Candidate Starts for DonaldDuck_106:

(6, 60766), (7, 60589), (Start: 10 @60529 has 24 MA's), (16, 60460), (18, 60451), (21, 60388),

Gene: Fizzles_102 Start: 60802, Stop: 60497, Start Num: 10

Candidate Starts for Fizzles_102:

(7, 60853), (Start: 10 @60802 has 24 MA's), (16, 60742), (18, 60733), (22, 60643), (24, 60610), (25, 60565), (26, 60529),

Gene: Gazebo_103 Start: 60872, Stop: 60570, Start Num: 10

Candidate Starts for Gazebo_103:

(Start: 10 @60872 has 24 MA's), (16, 60803), (18, 60794), (23, 60677),

Gene: Grassboy_110 Start: 61542, Stop: 61252, Start Num: 10

Candidate Starts for Grassboy_110:

(6, 61779), (7, 61602), (Start: 10 @61542 has 24 MA's), (16, 61473), (18, 61464), (21, 61401),

Gene: Hyperion_102 Start: 60484, Stop: 60200, Start Num: 10

Candidate Starts for Hyperion_102:

(6, 60721), (7, 60544), (Start: 10 @60484 has 24 MA's),

Gene: Jehoshaphat_105 Start: 61013, Stop: 60702, Start Num: 10

Candidate Starts for Jehoshaphat_105:

(6, 61250), (7, 61073), (Start: 10 @61013 has 24 MA's), (16, 60944), (18, 60935), (21, 60872),

Gene: Judebell_108 Start: 60473, Stop: 60177, Start Num: 12
Candidate Starts for Judebell_108:
(6, 60737), (7, 60560), (Start: 10 @60500 has 24 MA's), (12, 60473), (16, 60419), (19, 60407), (21, 60347),

Gene: Kyva_110 Start: 61566, Stop: 61276, Start Num: 10
Candidate Starts for Kyva_110:
(6, 61803), (7, 61626), (Start: 10 @61566 has 24 MA's), (16, 61497), (18, 61488), (21, 61425),

Gene: Llemily_106 Start: 60146, Stop: 59913, Start Num: 18
Candidate Starts for Llemily_106:
(6, 60461), (7, 60284), (Start: 10 @60224 has 24 MA's), (16, 60155), (18, 60146), (21, 60083),

Gene: Lonelysoil_103 Start: 60097, Stop: 59807, Start Num: 10
Candidate Starts for Lonelysoil_103:
(6, 60334), (7, 60157), (Start: 10 @60097 has 24 MA's), (16, 60028), (18, 60019), (21, 59956),

Gene: Mashley_102 Start: 60633, Stop: 60328, Start Num: 10
Candidate Starts for Mashley_102:
(6, 60870), (7, 60693), (Start: 10 @60633 has 24 MA's), (21, 60498),

Gene: Namago_106 Start: 60512, Stop: 60201, Start Num: 10
Candidate Starts for Namago_106:
(6, 60749), (7, 60572), (Start: 10 @60512 has 24 MA's), (14, 60446), (21, 60371),

Gene: Nike_102 Start: 61107, Stop: 60817, Start Num: 10
Candidate Starts for Nike_102:
(Start: 10 @61107 has 24 MA's), (14, 61041), (21, 60966),

Gene: Phabia_104 Start: 60521, Stop: 60231, Start Num: 10
Candidate Starts for Phabia_104:
(6, 60758), (7, 60581), (Start: 10 @60521 has 24 MA's), (14, 60455),

Gene: Phinky_105 Start: 61771, Stop: 61445, Start Num: 9
Candidate Starts for Phinky_105:
(7, 61831), (Start: 9 @61771 has 1 MA's), (11, 61750), (16, 61693), (17, 61684), (19, 61678), (21, 61618),

Gene: Quammi_105 Start: 60618, Stop: 60328, Start Num: 10
Candidate Starts for Quammi_105:
(5, 60924), (6, 60855), (7, 60678), (Start: 10 @60618 has 24 MA's), (16, 60549), (18, 60540), (21, 60477),

Gene: Rowlf_106 Start: 60762, Stop: 60460, Start Num: 10
Candidate Starts for Rowlf_106:
(4, 61092), (5, 61068), (6, 60999), (7, 60822), (Start: 10 @60762 has 24 MA's), (12, 60735), (16, 60681), (21, 60609),

Gene: Rudy_103 Start: 60484, Stop: 60194, Start Num: 10
Candidate Starts for Rudy_103:
(5, 60790), (6, 60721), (7, 60544), (Start: 10 @60484 has 24 MA's), (16, 60415), (18, 60406), (21, 60343),

Gene: SallyK_105 Start: 61582, Stop: 61298, Start Num: 10
Candidate Starts for SallyK_105:
(6, 61819), (7, 61642), (Start: 10 @61582 has 24 MA's), (21, 61447),

Gene: Sillytadpoles_108 Start: 60212, Stop: 59901, Start Num: 10
Candidate Starts for Sillytadpoles_108:
(5, 60518), (6, 60449), (7, 60272), (Start: 10 @60212 has 24 MA's), (16, 60143), (18, 60134), (21, 60071),

Gene: Squash_106 Start: 61026, Stop: 60736, Start Num: 10
Candidate Starts for Squash_106:
(5, 61332), (6, 61263), (7, 61086), (Start: 10 @61026 has 24 MA's), (14, 60960), (21, 60885),

Gene: StrawberryJamm_111 Start: 60673, Stop: 60362, Start Num: 10
Candidate Starts for StrawberryJamm_111:
(6, 60910), (7, 60733), (Start: 10 @60673 has 24 MA's), (16, 60604), (18, 60595), (21, 60532),

Gene: Teehee_104 Start: 61010, Stop: 60699, Start Num: 10
Candidate Starts for Teehee_104:
(6, 61247), (7, 61070), (Start: 10 @61010 has 24 MA's), (16, 60941), (18, 60932), (21, 60869),

Gene: Tissue_105 Start: 61338, Stop: 61036, Start Num: 10
Candidate Starts for Tissue_105:
(1, 61953), (2, 61896), (3, 61788), (6, 61575), (7, 61398), (Start: 10 @61338 has 24 MA's), (12, 61311), (16, 61257), (19, 61245), (21, 61185),

Gene: Viceroy_104 Start: 60439, Stop: 60149, Start Num: 10
Candidate Starts for Viceroy_104:
(6, 60676), (7, 60499), (Start: 10 @60439 has 24 MA's), (16, 60370), (18, 60361), (21, 60298),

Gene: Wayne3_106 Start: 61090, Stop: 60800, Start Num: 10
Candidate Starts for Wayne3_106:
(6, 61327), (7, 61150), (Start: 10 @61090 has 24 MA's), (16, 61021), (18, 61012), (21, 60949),

Gene: Wheelie_104 Start: 60411, Stop: 60121, Start Num: 10
Candidate Starts for Wheelie_104:
(6, 60648), (7, 60471), (Start: 10 @60411 has 24 MA's), (16, 60342), (18, 60333), (21, 60270),

Gene: Zagie_107 Start: 61084, Stop: 60794, Start Num: 10
Candidate Starts for Zagie_107:
(6, 61321), (7, 61144), (Start: 10 @61084 has 24 MA's), (16, 61015), (18, 61006), (21, 60943),

Gene: Zhafia_110 Start: 60928, Stop: 60695, Start Num: 18
Candidate Starts for Zhafia_110:
(6, 61243), (7, 61066), (Start: 10 @61006 has 24 MA's), (16, 60937), (18, 60928), (21, 60865),