

Pham 156528



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 156528 Report

This analysis was run 04/12/24 on database version 558.

Pham number 156528 has 36 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 : Altheas\_106
- Track 6 : Phabia\_104
- Track 7 : Zhafia\_110, Llemily\_106, DonaldDuck\_106
- Track 8 : Rowlf\_106
- Track 9 : Fizzles\_102
- Track 10 : Phinky\_105
- Track 11 : Casend\_104, BabyDotz\_102
- Track 12 : Grassboy\_110, Zagie\_107, Kyva\_110
- 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
- Track 20 : Cassita\_4, Cassita\_129

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

The start number called the most often in the published annotations is 9, it was called in 25 of the 27 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, Phinky\_105, 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, Cassita\_129, Cassita\_4,

### Summary by start number:

Start 8:

- Found in 1 of 36 ( 2.8% ) 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 33 of 36 ( 91.7% ) of genes in pham
- Manual Annotations of this start: 25 of 27
- Called 87.9% 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), Phinky\_105 (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 11:

- Found in 5 of 36 ( 13.9% ) 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 13:

- Found in 2 of 36 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 2 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cassita\_129 (GB), Cassita\_4 (GB),

Start 18:

- Found in 20 of 36 ( 55.6% ) 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 are 2 clusters represented in this pham: EG, GB,

Info for manual annotations of cluster EG:

- Start number 9 was manually annotated 25 times for cluster EG.

Info for manual annotations of cluster GB:

•Start number 13 was manually annotated 2 times for cluster GB.

**Gene Information:**

Gene: Altheas\_106 Start: 61464, Stop: 61135, Start Num: 8

Candidate Starts for Altheas\_106:

(7, 61515), (8, 61464), (12, 61416), (15, 61380), (20, 61356),

Gene: AluminumJesus\_102 Start: 60641, Stop: 60351, Start Num: 9

Candidate Starts for AluminumJesus\_102:

(5, 60947), (6, 60878), (7, 60701), (Start: 9 @60641 has 25 MA's), (16, 60572), (18, 60563), (22, 60500),

Gene: BabyDotz\_102 Start: 61777, Stop: 61475, Start Num: 9

Candidate Starts for BabyDotz\_102:

(6, 62014), (7, 61837), (Start: 9 @61777 has 25 MA's), (11, 61750), (16, 61696), (19, 61684), (22, 61624),

Gene: Blab\_101 Start: 60867, Stop: 60565, Start Num: 9

Candidate Starts for Blab\_101:

(5, 61173), (6, 61104), (7, 60927), (Start: 9 @60867 has 25 MA's), (16, 60798), (18, 60789),

Gene: Casend\_104 Start: 61175, Stop: 60873, Start Num: 9

Candidate Starts for Casend\_104:

(6, 61412), (7, 61235), (Start: 9 @61175 has 25 MA's), (11, 61148), (16, 61094), (19, 61082), (22, 61022),

Gene: Cassita\_4 Start: 1052, Stop: 801, Start Num: 13

Candidate Starts for Cassita\_4:

(Start: 13 @1052 has 2 MA's), (17, 1022), (21, 992),

Gene: Cassita\_129 Start: 61271, Stop: 61020, Start Num: 13

Candidate Starts for Cassita\_129:

(Start: 13 @61271 has 2 MA's), (17, 61241), (21, 61211),

Gene: DonaldDuck\_106 Start: 60451, Stop: 60218, Start Num: 18

Candidate Starts for DonaldDuck\_106:

(6, 60766), (7, 60589), (Start: 9 @60529 has 25 MA's), (16, 60460), (18, 60451), (22, 60388),

Gene: Fizzles\_102 Start: 60802, Stop: 60497, Start Num: 9

Candidate Starts for Fizzles\_102:

(7, 60853), (Start: 9 @60802 has 25 MA's), (16, 60742), (18, 60733), (23, 60643), (25, 60610), (26, 60565), (27, 60529),

Gene: Gazebo\_103 Start: 60872, Stop: 60570, Start Num: 9

Candidate Starts for Gazebo\_103:

(Start: 9 @60872 has 25 MA's), (16, 60803), (18, 60794), (24, 60677),

Gene: Grassboy\_110 Start: 61542, Stop: 61252, Start Num: 9

Candidate Starts for Grassboy\_110:

(6, 61779), (7, 61602), (Start: 9 @61542 has 25 MA's), (16, 61473), (18, 61464), (22, 61401),

Gene: Hyperion\_102 Start: 60484, Stop: 60200, Start Num: 9

Candidate Starts for Hyperion\_102:

(6, 60721), (7, 60544), (Start: 9 @60484 has 25 MA's),

Gene: Jehoshaphat\_105 Start: 61013, Stop: 60702, Start Num: 9

Candidate Starts for Jehoshaphat\_105:

(6, 61250), (7, 61073), (Start: 9 @61013 has 25 MA's), (16, 60944), (18, 60935), (22, 60872),

Gene: Judebell\_108 Start: 60473, Stop: 60177, Start Num: 11

Candidate Starts for Judebell\_108:

(6, 60737), (7, 60560), (Start: 9 @60500 has 25 MA's), (11, 60473), (16, 60419), (19, 60407), (22, 60347),

Gene: Kyva\_110 Start: 61566, Stop: 61276, Start Num: 9

Candidate Starts for Kyva\_110:

(6, 61803), (7, 61626), (Start: 9 @61566 has 25 MA's), (16, 61497), (18, 61488), (22, 61425),

Gene: Llemily\_106 Start: 60146, Stop: 59913, Start Num: 18

Candidate Starts for Llemily\_106:

(6, 60461), (7, 60284), (Start: 9 @60224 has 25 MA's), (16, 60155), (18, 60146), (22, 60083),

Gene: Lonelysoil\_103 Start: 60097, Stop: 59807, Start Num: 9

Candidate Starts for Lonelysoil\_103:

(6, 60334), (7, 60157), (Start: 9 @60097 has 25 MA's), (16, 60028), (18, 60019), (22, 59956),

Gene: Mashley\_102 Start: 60633, Stop: 60328, Start Num: 9

Candidate Starts for Mashley\_102:

(6, 60870), (7, 60693), (Start: 9 @60633 has 25 MA's), (22, 60498),

Gene: Namago\_106 Start: 60512, Stop: 60201, Start Num: 9

Candidate Starts for Namago\_106:

(6, 60749), (7, 60572), (Start: 9 @60512 has 25 MA's), (14, 60446), (22, 60371),

Gene: Nike\_102 Start: 61107, Stop: 60817, Start Num: 9

Candidate Starts for Nike\_102:

(Start: 9 @61107 has 25 MA's), (14, 61041), (22, 60966),

Gene: Phabia\_104 Start: 60521, Stop: 60231, Start Num: 9

Candidate Starts for Phabia\_104:

(6, 60758), (7, 60581), (Start: 9 @60521 has 25 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 25 MA's), (10, 61750), (16, 61693), (17, 61684), (19, 61678), (22, 61618),

Gene: Quammi\_105 Start: 60618, Stop: 60328, Start Num: 9

Candidate Starts for Quammi\_105:

(5, 60924), (6, 60855), (7, 60678), (Start: 9 @60618 has 25 MA's), (16, 60549), (18, 60540), (22, 60477),

Gene: Rowlf\_106 Start: 60762, Stop: 60460, Start Num: 9

Candidate Starts for Rowlf\_106:

(4, 61092), (5, 61068), (6, 60999), (7, 60822), (Start: 9 @60762 has 25 MA's), (11, 60735), (16, 60681), (22, 60609),

Gene: Rudy\_103 Start: 60484, Stop: 60194, Start Num: 9

Candidate Starts for Rudy\_103:

(5, 60790), (6, 60721), (7, 60544), (Start: 9 @60484 has 25 MA's), (16, 60415), (18, 60406), (22, 60343),

Gene: SallyK\_105 Start: 61582, Stop: 61298, Start Num: 9

Candidate Starts for SallyK\_105:

(6, 61819), (7, 61642), (Start: 9 @61582 has 25 MA's), (22, 61447),

Gene: Sillytadpoles\_108 Start: 60212, Stop: 59901, Start Num: 9

Candidate Starts for Sillytadpoles\_108:

(5, 60518), (6, 60449), (7, 60272), (Start: 9 @60212 has 25 MA's), (16, 60143), (18, 60134), (22, 60071),

Gene: Squash\_106 Start: 61026, Stop: 60736, Start Num: 9

Candidate Starts for Squash\_106:

(5, 61332), (6, 61263), (7, 61086), (Start: 9 @61026 has 25 MA's), (14, 60960), (22, 60885),

Gene: StrawberryJamm\_111 Start: 60673, Stop: 60362, Start Num: 9

Candidate Starts for StrawberryJamm\_111:

(6, 60910), (7, 60733), (Start: 9 @60673 has 25 MA's), (16, 60604), (18, 60595), (22, 60532),

Gene: Teehee\_104 Start: 61010, Stop: 60699, Start Num: 9

Candidate Starts for Teehee\_104:

(6, 61247), (7, 61070), (Start: 9 @61010 has 25 MA's), (16, 60941), (18, 60932), (22, 60869),

Gene: Tissue\_105 Start: 61338, Stop: 61036, Start Num: 9

Candidate Starts for Tissue\_105:

(1, 61953), (2, 61896), (3, 61788), (6, 61575), (7, 61398), (Start: 9 @61338 has 25 MA's), (11, 61311), (16, 61257), (19, 61245), (22, 61185),

Gene: Viceroy\_104 Start: 60439, Stop: 60149, Start Num: 9

Candidate Starts for Viceroy\_104:

(6, 60676), (7, 60499), (Start: 9 @60439 has 25 MA's), (16, 60370), (18, 60361), (22, 60298),

Gene: Wayne3\_106 Start: 61090, Stop: 60800, Start Num: 9

Candidate Starts for Wayne3\_106:

(6, 61327), (7, 61150), (Start: 9 @61090 has 25 MA's), (16, 61021), (18, 61012), (22, 60949),

Gene: Wheelie\_104 Start: 60411, Stop: 60121, Start Num: 9

Candidate Starts for Wheelie\_104:

(6, 60648), (7, 60471), (Start: 9 @60411 has 25 MA's), (16, 60342), (18, 60333), (22, 60270),

Gene: Zagie\_107 Start: 61084, Stop: 60794, Start Num: 9

Candidate Starts for Zagie\_107:

(6, 61321), (7, 61144), (Start: 9 @61084 has 25 MA's), (16, 61015), (18, 61006), (22, 60943),

Gene: Zhafia\_110 Start: 60928, Stop: 60695, Start Num: 18

Candidate Starts for Zhafia\_110:

(6, 61243), (7, 61066), (Start: 9 @61006 has 25 MA's), (16, 60937), (18, 60928), (22, 60865),