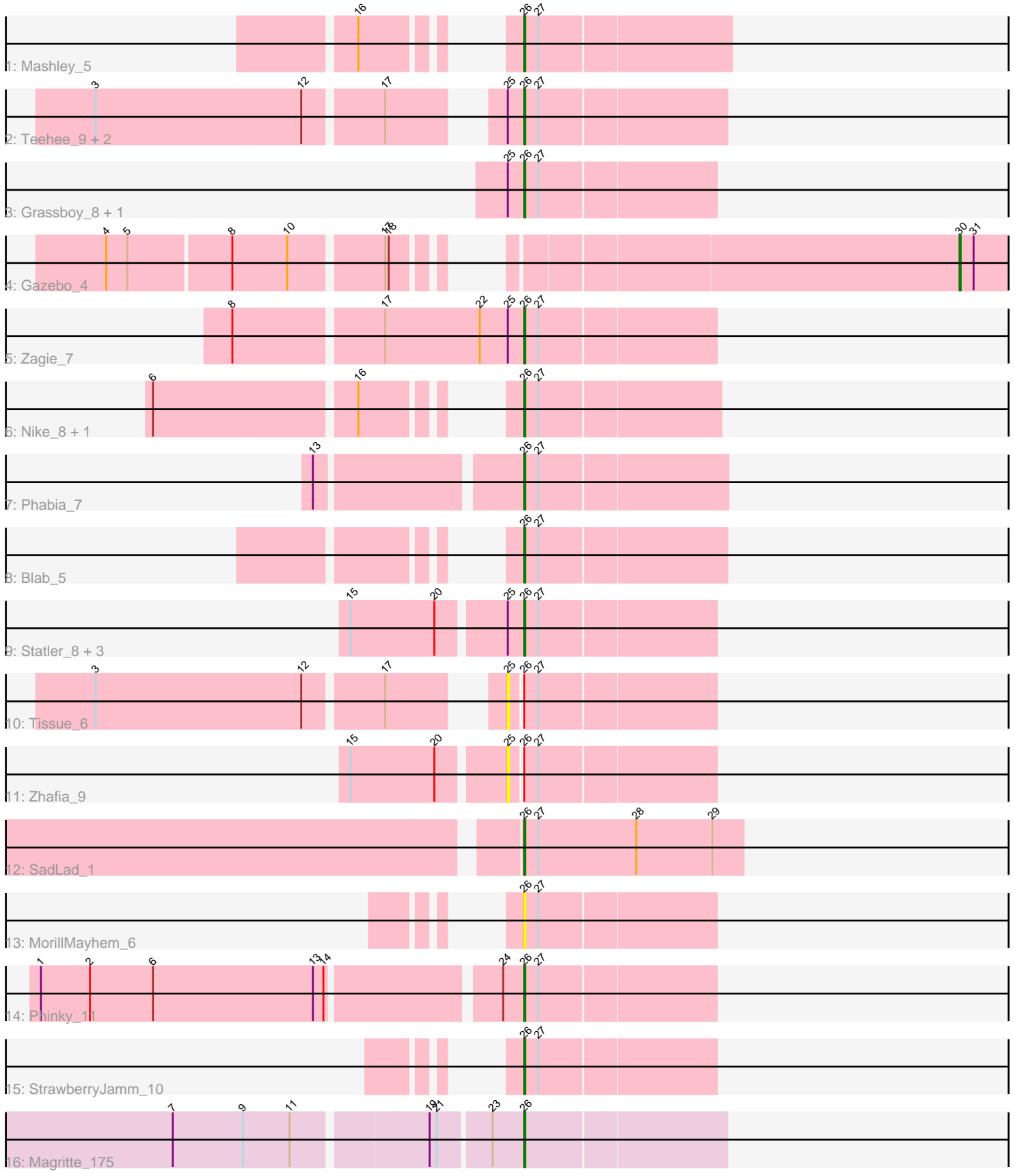


Pham 191507



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 191507 Report

This analysis was run 11/02/24 on database version 579.

Pham number 191507 has 23 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Mashley\_5
- Track 2 : Teehee\_9, SallyK\_8, Jehoshaphat\_9
- Track 3 : Grassboy\_8, Kyva\_10
- Track 4 : Gazebo\_4
- Track 5 : Zagie\_7
- Track 6 : Nike\_8, Squash\_9
- Track 7 : Phabia\_7
- Track 8 : Blab\_5
- Track 9 : Statler\_8, AluminumJesus\_4, Namago\_6, Judebell\_8
- Track 10 : Tissue\_6
- Track 11 : Zhafia\_9
- Track 12 : SadLad\_1
- Track 13 : MorillMayhem\_6
- Track 14 : Phinky\_11
- Track 15 : StrawberryJamm\_10
- Track 16 : Magritte\_175

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

The start number called the most often in the published annotations is 26, it was called in 17 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AluminumJesus\_4, Blab\_5, Grassboy\_8, Jehoshaphat\_9, Judebell\_8, Kyva\_10, Magritte\_175, Mashley\_5, MorillMayhem\_6, Namago\_6, Nike\_8, Phabia\_7, Phinky\_11, SadLad\_1, SallyK\_8, Squash\_9, Statler\_8, StrawberryJamm\_10, Teehee\_9, Zagie\_7,

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

- Tissue\_6, Zhafia\_9,

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

- Gazebo\_4,

## Summary by start number:

### Start 25:

- Found in 12 of 23 ( 52.2% ) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Tissue\_6 (EG), Zhafia\_9 (EG),

### Start 26:

- Found in 22 of 23 ( 95.7% ) of genes in pham
- Manual Annotations of this start: 17 of 18
- Called 90.9% of time when present
- Phage (with cluster) where this start called: AluminumJesus\_4 (EG), Blab\_5 (EG), Grassboy\_8 (EG), Jehoshaphat\_9 (EG), Judebell\_8 (EG), Kyva\_10 (EG), Magritte\_175 (singleton), Mashley\_5 (EG), MorillMayhem\_6 (EG), Namago\_6 (EG), Nike\_8 (EG), Phabia\_7 (EG), Phinky\_11 (EG), SadLad\_1 (EG), SallyK\_8 (EG), Squash\_9 (EG), Statler\_8 (EG), StrawberryJamm\_10 (EG), Teehee\_9 (EG), Zagie\_7 (EG),

### Start 30:

- Found in 1 of 23 ( 4.3% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gazebo\_4 (EG),

## Summary by clusters:

There are 2 clusters represented in this pham: EG, singleton,

Info for manual annotations of cluster EG:

- Start number 26 was manually annotated 16 times for cluster EG.
- Start number 30 was manually annotated 1 time for cluster EG.

## Gene Information:

Gene: AluminumJesus\_4 Start: 1531, Stop: 1373, Start Num: 26

Candidate Starts for AluminumJesus\_4:

(15, 1666), (20, 1594), (25, 1540), (Start: 26 @1531 has 17 MA's), (27, 1519),

Gene: Blab\_5 Start: 1531, Stop: 1364, Start Num: 26

Candidate Starts for Blab\_5:

(Start: 26 @1531 has 17 MA's), (27, 1519),

Gene: Gazebo\_4 Start: 1703, Stop: 1548, Start Num: 30

Candidate Starts for Gazebo\_4:

(4, 2336), (5, 2318), (8, 2234), (10, 2189), (17, 2114), (18, 2111), (Start: 30 @1703 has 1 MA's), (31, 1691),

Gene: Grassboy\_8 Start: 2431, Stop: 2273, Start Num: 26

Candidate Starts for Grassboy\_8:

(25, 2440), (Start: 26 @2431 has 17 MA's), (27, 2419),

Gene: Jehoshaphat\_9 Start: 2955, Stop: 2788, Start Num: 26

Candidate Starts for Jehoshaphat\_9:

(3, 3270), (12, 3096), (17, 3033), (25, 2964), (Start: 26 @2955 has 17 MA's), (27, 2943),

Gene: Judebell\_8 Start: 2409, Stop: 2251, Start Num: 26

Candidate Starts for Judebell\_8:

(15, 2544), (20, 2472), (25, 2418), (Start: 26 @2409 has 17 MA's), (27, 2397),

Gene: Kyva\_10 Start: 2466, Stop: 2308, Start Num: 26

Candidate Starts for Kyva\_10:

(25, 2475), (Start: 26 @2466 has 17 MA's), (27, 2454),

Gene: Magritte\_175 Start: 100807, Stop: 100974, Start Num: 26

Candidate Starts for Magritte\_175:

(7, 100525), (9, 100585), (11, 100624), (19, 100732), (21, 100738), (23, 100780), (Start: 26 @100807 has 17 MA's),

Gene: Mashley\_5 Start: 1919, Stop: 1749, Start Num: 26

Candidate Starts for Mashley\_5:

(16, 1991), (Start: 26 @1919 has 17 MA's), (27, 1907),

Gene: MorillMayhem\_6 Start: 2134, Stop: 1976, Start Num: 26

Candidate Starts for MorillMayhem\_6:

(Start: 26 @2134 has 17 MA's), (27, 2122),

Gene: Namago\_6 Start: 1716, Stop: 1558, Start Num: 26

Candidate Starts for Namago\_6:

(15, 1851), (20, 1779), (25, 1725), (Start: 26 @1716 has 17 MA's), (27, 1704),

Gene: Nike\_8 Start: 2379, Stop: 2218, Start Num: 26

Candidate Starts for Nike\_8:

(6, 2616), (16, 2451), (Start: 26 @2379 has 17 MA's), (27, 2367),

Gene: Phabia\_7 Start: 2157, Stop: 1990, Start Num: 26

Candidate Starts for Phabia\_7:

(13, 2319), (Start: 26 @2157 has 17 MA's), (27, 2145),

Gene: Phinky\_11 Start: 2876, Stop: 2718, Start Num: 26

Candidate Starts for Phinky\_11:

(1, 3269), (2, 3227), (6, 3173), (13, 3038), (14, 3029), (24, 2894), (Start: 26 @2876 has 17 MA's), (27, 2864),

Gene: SadLad\_1 Start: 839, Stop: 654, Start Num: 26

Candidate Starts for SadLad\_1:

(Start: 26 @839 has 17 MA's), (27, 827), (28, 743), (29, 680),

Gene: SallyK\_8 Start: 3005, Stop: 2847, Start Num: 26

Candidate Starts for SallyK\_8:

(3, 3320), (12, 3146), (17, 3083), (25, 3014), (Start: 26 @3005 has 17 MA's), (27, 2993),

Gene: Squash\_9 Start: 2434, Stop: 2273, Start Num: 26

Candidate Starts for Squash\_9:

(6, 2671), (16, 2506), (Start: 26 @2434 has 17 MA's), (27, 2422),

Gene: Statler\_8 Start: 2251, Stop: 2093, Start Num: 26

Candidate Starts for Statler\_8:

(15, 2386), (20, 2314), (25, 2260), (Start: 26 @2251 has 17 MA's), (27, 2239),

Gene: StrawberryJamm\_10 Start: 2459, Stop: 2301, Start Num: 26

Candidate Starts for StrawberryJamm\_10:

(Start: 26 @2459 has 17 MA's), (27, 2447),

Gene: Teehee\_9 Start: 2955, Stop: 2788, Start Num: 26

Candidate Starts for Teehee\_9:

(3, 3270), (12, 3096), (17, 3033), (25, 2964), (Start: 26 @2955 has 17 MA's), (27, 2943),

Gene: Tissue\_6 Start: 2095, Stop: 1928, Start Num: 25

Candidate Starts for Tissue\_6:

(3, 2401), (12, 2227), (17, 2164), (25, 2095), (Start: 26 @2086 has 17 MA's), (27, 2074),

Gene: Zagie\_7 Start: 2367, Stop: 2209, Start Num: 26

Candidate Starts for Zagie\_7:

(8, 2601), (17, 2481), (22, 2400), (25, 2376), (Start: 26 @2367 has 17 MA's), (27, 2355),

Gene: Zhafia\_9 Start: 2395, Stop: 2228, Start Num: 25

Candidate Starts for Zhafia\_9:

(15, 2521), (20, 2449), (25, 2395), (Start: 26 @2386 has 17 MA's), (27, 2374),