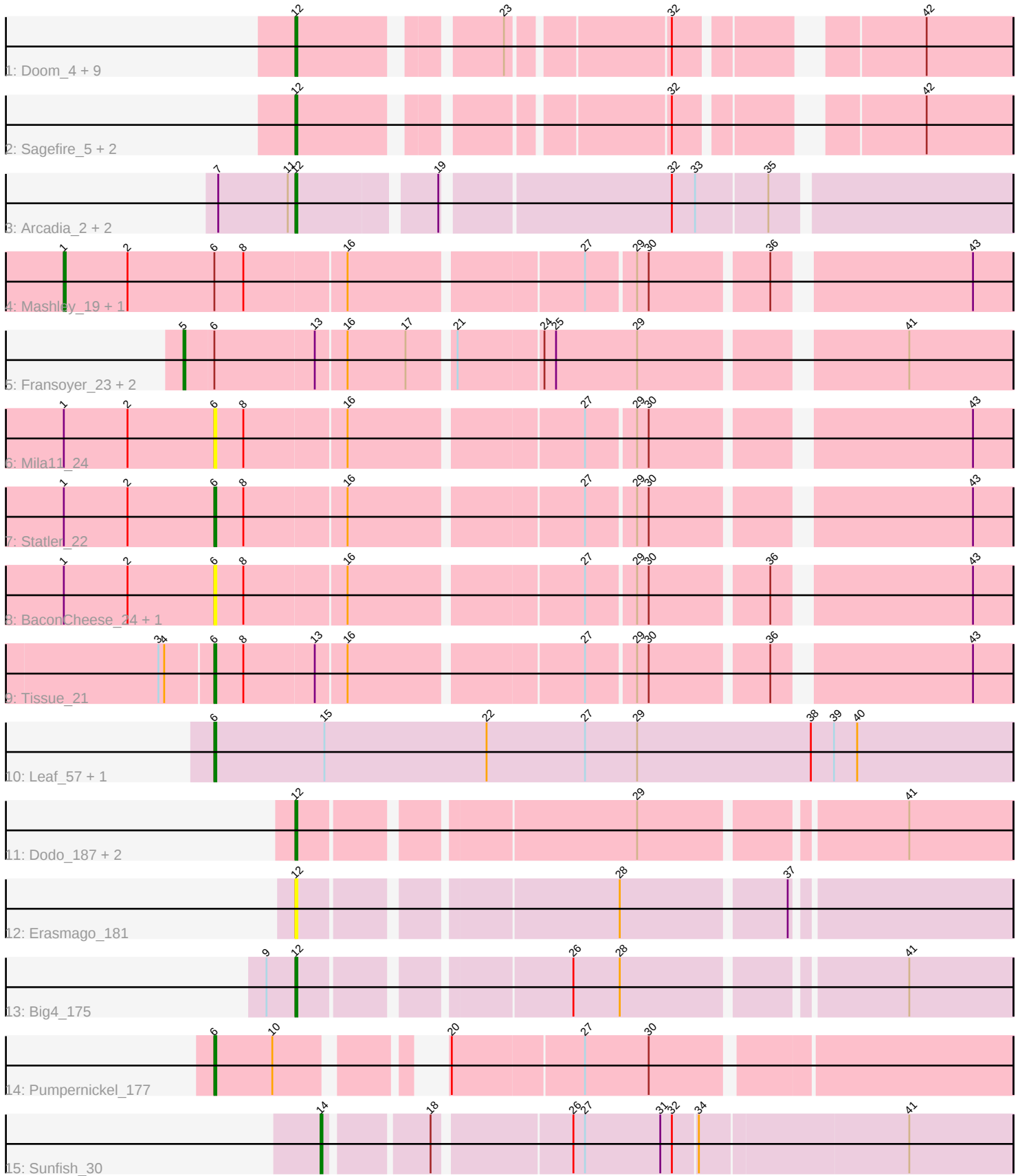


Pham 278413



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 278413 Report

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

Pham number 278413 has 35 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Doom_4, ILeeKay_5, Ajay_4, KBG_4, Smairt_4, Aldrich_4, BigPaolini_5, GroundGoblin_4, Adahisdi_4, Oogway_3
- Track 2 : Sagefire_5, Rutherferd_4, Peterson_5
- Track 3 : Arcadia_2, Nason_2, Elsa_2
- Track 4 : Mashley_19, Hyperion_20
- Track 5 : Fransoyer_23, RubyRalph_23, SadLad_24
- Track 6 : Mila11_24
- Track 7 : Statler_22
- Track 8 : BaconCheese_24, MorillMayhem_20
- Track 9 : Tissue_21
- Track 10 : Leaf_57, Dewdrop_57
- Track 11 : Dodo_187, PauloDiaboli_185, A3Wally_186
- Track 12 : Erasmago_181
- Track 13 : Big4_175
- Track 14 : Pumpernickel_177
- Track 15 : Sunfish_30

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

The start number called the most often in the published annotations is 12, it was called in 17 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A3Wally_186, Adahisdi_4, Ajay_4, Aldrich_4, Arcadia_2, Big4_175, BigPaolini_5, Dodo_187, Doom_4, Elsa_2, Erasmago_181, GroundGoblin_4, ILeeKay_5, KBG_4, Nason_2, Oogway_3, PauloDiaboli_185, Peterson_5, Rutherferd_4, Sagefire_5, Smairt_4,

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

-

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

- BaconCheese_24, Dewdrop_57, Fransoyer_23, Hyperion_20, Leaf_57, Mashley_19, Mila11_24, MorillMayhem_20, Pumpernickel_177, RubyRalph_23,

SadLad_24, Statler_22, Sunfish_30, Tissue_21,

Summary by start number:

Start 1:

- Found in 6 of 35 (17.1%) of genes in pham
- Manual Annotations of this start: 2 of 28
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Hyperion_20 (EG), Mashley_19 (EG),

Start 5:

- Found in 3 of 35 (8.6%) of genes in pham
- Manual Annotations of this start: 3 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fransoyer_23 (EG), RubyRalph_23 (EG), SadLad_24 (EG),

Start 6:

- Found in 13 of 35 (37.1%) of genes in pham
- Manual Annotations of this start: 5 of 28
- Called 61.5% of time when present
- Phage (with cluster) where this start called: BaconCheese_24 (EG), Dewdrop_57 (GC), Leaf_57 (GC), Mila11_24 (EG), MorillMayhem_20 (EG), Pumppernickel_177 (GD4), Statler_22 (EG), Tissue_21 (EG),

Start 12:

- Found in 21 of 35 (60.0%) of genes in pham
- Manual Annotations of this start: 17 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally_186 (GD1), Adahisdi_4 (A1), Ajay_4 (A1), Aldrich_4 (A1), Arcadia_2 (AM), Big4_175 (GD2), BigPaolini_5 (A1), Dodo_187 (GD1), Doom_4 (A1), Elsa_2 (AM), Erasmago_181 (GD2), GroundGoblin_4 (A1), ILeeKay_5 (A1), KBG_4 (A1), Nason_2 (AM), Oogway_3 (A1), PauloDiaboli_185 (GD1), Peterson_5 (A1), Rutherford_4 (A1), Sagefire_5 (A1), Smairt_4 (A1),

Start 14:

- Found in 1 of 35 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sunfish_30 (singleton),

Summary by clusters:

There are 8 clusters represented in this pham: GD1, GD2, GD4, EG, AM, singleton, A1, GC,

Info for manual annotations of cluster A1:

- Start number 12 was manually annotated 11 times for cluster A1.

Info for manual annotations of cluster AM:

- Start number 12 was manually annotated 3 times for cluster AM.

Info for manual annotations of cluster EG:

- Start number 1 was manually annotated 2 times for cluster EG.
- Start number 5 was manually annotated 3 times for cluster EG.
- Start number 6 was manually annotated 2 times for cluster EG.

Info for manual annotations of cluster GC:

- Start number 6 was manually annotated 2 times for cluster GC.

Info for manual annotations of cluster GD1:

- Start number 12 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 12 was manually annotated 1 time for cluster GD2.

Info for manual annotations of cluster GD4:

- Start number 6 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_186 Start: 101532, Stop: 101870, Start Num: 12

Candidate Starts for A3Wally_186:

(Start: 12 @101532 has 17 MA's), (29, 101691), (41, 101817),

Gene: Adahisdi_4 Start: 1698, Stop: 2012, Start Num: 12

Candidate Starts for Adahisdi_4:

(Start: 12 @1698 has 17 MA's), (23, 1788), (32, 1863), (42, 1968),

Gene: Ajay_4 Start: 1694, Stop: 2008, Start Num: 12

Candidate Starts for Ajay_4:

(Start: 12 @1694 has 17 MA's), (23, 1784), (32, 1859), (42, 1964),

Gene: Aldrich_4 Start: 1705, Stop: 2019, Start Num: 12

Candidate Starts for Aldrich_4:

(Start: 12 @1705 has 17 MA's), (23, 1795), (32, 1870), (42, 1975),

Gene: Arcadia_2 Start: 525, Stop: 869, Start Num: 12

Candidate Starts for Arcadia_2:

(7, 486), (11, 522), (Start: 12 @525 has 17 MA's), (19, 591), (32, 702), (33, 714), (35, 750),

Gene: BaconCheese_24 Start: 9375, Stop: 9755, Start Num: 6

Candidate Starts for BaconCheese_24:

(Start: 1 @9297 has 2 MA's), (2, 9330), (Start: 6 @9375 has 5 MA's), (8, 9390), (16, 9441), (27, 9555), (29, 9579), (30, 9585), (36, 9642), (43, 9735),

Gene: Big4_175 Start: 98404, Stop: 98742, Start Num: 12

Candidate Starts for Big4_175:

(9, 98389), (Start: 12 @98404 has 17 MA's), (26, 98530), (28, 98554), (41, 98689),

Gene: BigPaolini_5 Start: 2209, Stop: 2523, Start Num: 12

Candidate Starts for BigPaolini_5:

(Start: 12 @2209 has 17 MA's), (23, 2299), (32, 2374), (42, 2479),

Gene: Dewdrop_57 Start: 24658, Stop: 25071, Start Num: 6
Candidate Starts for Dewdrop_57:
(Start: 6 @24658 has 5 MA's), (15, 24715), (22, 24799), (27, 24850), (29, 24877), (38, 24967), (39, 24979), (40, 24991),

Gene: Dodo_187 Start: 101144, Stop: 101482, Start Num: 12
Candidate Starts for Dodo_187:
(Start: 12 @101144 has 17 MA's), (29, 101303), (41, 101429),

Gene: Doom_4 Start: 1700, Stop: 2014, Start Num: 12
Candidate Starts for Doom_4:
(Start: 12 @1700 has 17 MA's), (23, 1790), (32, 1865), (42, 1970),

Gene: Elsa_2 Start: 525, Stop: 869, Start Num: 12
Candidate Starts for Elsa_2:
(7, 486), (11, 522), (Start: 12 @525 has 17 MA's), (19, 591), (32, 702), (33, 714), (35, 750),

Gene: Erasmago_181 Start: 98728, Stop: 99066, Start Num: 12
Candidate Starts for Erasmago_181:
(Start: 12 @98728 has 17 MA's), (28, 98878), (37, 98959),

Gene: Fransoyer_23 Start: 8495, Stop: 8893, Start Num: 5
Candidate Starts for Fransoyer_23:
(Start: 5 @8495 has 3 MA's), (Start: 6 @8510 has 5 MA's), (13, 8561), (16, 8576), (17, 8606), (21, 8627), (24, 8669), (25, 8675), (29, 8717), (41, 8840),

Gene: GroundGoblin_4 Start: 1705, Stop: 2019, Start Num: 12
Candidate Starts for GroundGoblin_4:
(Start: 12 @1705 has 17 MA's), (23, 1795), (32, 1870), (42, 1975),

Gene: Hyperion_20 Start: 8194, Stop: 8652, Start Num: 1
Candidate Starts for Hyperion_20:
(Start: 1 @8194 has 2 MA's), (2, 8227), (Start: 6 @8272 has 5 MA's), (8, 8287), (16, 8338), (27, 8452), (29, 8476), (30, 8482), (36, 8539), (43, 8632),

Gene: ILeeKay_5 Start: 1874, Stop: 2188, Start Num: 12
Candidate Starts for ILeeKay_5:
(Start: 12 @1874 has 17 MA's), (23, 1964), (32, 2039), (42, 2144),

Gene: KBG_4 Start: 1933, Stop: 2247, Start Num: 12
Candidate Starts for KBG_4:
(Start: 12 @1933 has 17 MA's), (23, 2023), (32, 2098), (42, 2203),

Gene: Leaf_57 Start: 24658, Stop: 25071, Start Num: 6
Candidate Starts for Leaf_57:
(Start: 6 @24658 has 5 MA's), (15, 24715), (22, 24799), (27, 24850), (29, 24877), (38, 24967), (39, 24979), (40, 24991),

Gene: Mashley_19 Start: 8005, Stop: 8463, Start Num: 1
Candidate Starts for Mashley_19:
(Start: 1 @8005 has 2 MA's), (2, 8038), (Start: 6 @8083 has 5 MA's), (8, 8098), (16, 8149), (27, 8263), (29, 8287), (30, 8293), (36, 8350), (43, 8443),

Gene: Mila11_24 Start: 9158, Stop: 9538, Start Num: 6

Candidate Starts for Mila11_24:

(Start: 1 @9080 has 2 MA's), (2, 9113), (Start: 6 @9158 has 5 MA's), (8, 9173), (16, 9224), (27, 9338), (29, 9362), (30, 9368), (43, 9518),

Gene: MorillMayhem_20 Start: 8091, Stop: 8471, Start Num: 6

Candidate Starts for MorillMayhem_20:

(Start: 1 @8013 has 2 MA's), (2, 8046), (Start: 6 @8091 has 5 MA's), (8, 8106), (16, 8157), (27, 8271), (29, 8295), (30, 8301), (36, 8358), (43, 8451),

Gene: Nason_2 Start: 525, Stop: 869, Start Num: 12

Candidate Starts for Nason_2:

(7, 486), (11, 522), (Start: 12 @525 has 17 MA's), (19, 591), (32, 702), (33, 714), (35, 750),

Gene: Oogway_3 Start: 1553, Stop: 1867, Start Num: 12

Candidate Starts for Oogway_3:

(Start: 12 @1553 has 17 MA's), (23, 1643), (32, 1718), (42, 1823),

Gene: PauloDiaboli_185 Start: 99579, Stop: 99917, Start Num: 12

Candidate Starts for PauloDiaboli_185:

(Start: 12 @99579 has 17 MA's), (29, 99738), (41, 99864),

Gene: Peterson_5 Start: 2390, Stop: 2704, Start Num: 12

Candidate Starts for Peterson_5:

(Start: 12 @2390 has 17 MA's), (32, 2555), (42, 2660),

Gene: Pumpernickel_177 Start: 101023, Stop: 101388, Start Num: 6

Candidate Starts for Pumpernickel_177:

(Start: 6 @101023 has 5 MA's), (10, 101053), (20, 101113), (27, 101179), (30, 101212),

Gene: RubyRalph_23 Start: 8429, Stop: 8827, Start Num: 5

Candidate Starts for RubyRalph_23:

(Start: 5 @8429 has 3 MA's), (Start: 6 @8444 has 5 MA's), (13, 8495), (16, 8510), (17, 8540), (21, 8561), (24, 8603), (25, 8609), (29, 8651), (41, 8774),

Gene: Rutherferd_4 Start: 1660, Stop: 1974, Start Num: 12

Candidate Starts for Rutherferd_4:

(Start: 12 @1660 has 17 MA's), (32, 1825), (42, 1930),

Gene: SadLad_24 Start: 8886, Stop: 9284, Start Num: 5

Candidate Starts for SadLad_24:

(Start: 5 @8886 has 3 MA's), (Start: 6 @8901 has 5 MA's), (13, 8952), (16, 8967), (17, 8997), (21, 9018), (24, 9060), (25, 9066), (29, 9108), (41, 9231),

Gene: Sagefire_5 Start: 1861, Stop: 2175, Start Num: 12

Candidate Starts for Sagefire_5:

(Start: 12 @1861 has 17 MA's), (32, 2026), (42, 2131),

Gene: Smairt_4 Start: 2007, Stop: 2321, Start Num: 12

Candidate Starts for Smairt_4:

(Start: 12 @2007 has 17 MA's), (23, 2097), (32, 2172), (42, 2277),

Gene: Statler_22 Start: 8569, Stop: 8949, Start Num: 6

Candidate Starts for Statler_22:

(Start: 1 @8491 has 2 MA's), (2, 8524), (Start: 6 @8569 has 5 MA's), (8, 8584), (16, 8635), (27, 8749), (29, 8773), (30, 8779), (43, 8929),

Gene: Sunfish_30 Start: 14435, Stop: 14770, Start Num: 14

Candidate Starts for Sunfish_30:

(Start: 14 @14435 has 1 MA's), (18, 14483), (26, 14549), (27, 14555), (31, 14594), (32, 14600), (34, 14612), (41, 14717),

Gene: Tissue_21 Start: 8398, Stop: 8778, Start Num: 6

Candidate Starts for Tissue_21:

(3, 8371), (4, 8374), (Start: 6 @8398 has 5 MA's), (8, 8413), (13, 8449), (16, 8464), (27, 8578), (29, 8602), (30, 8608), (36, 8665), (43, 8758),