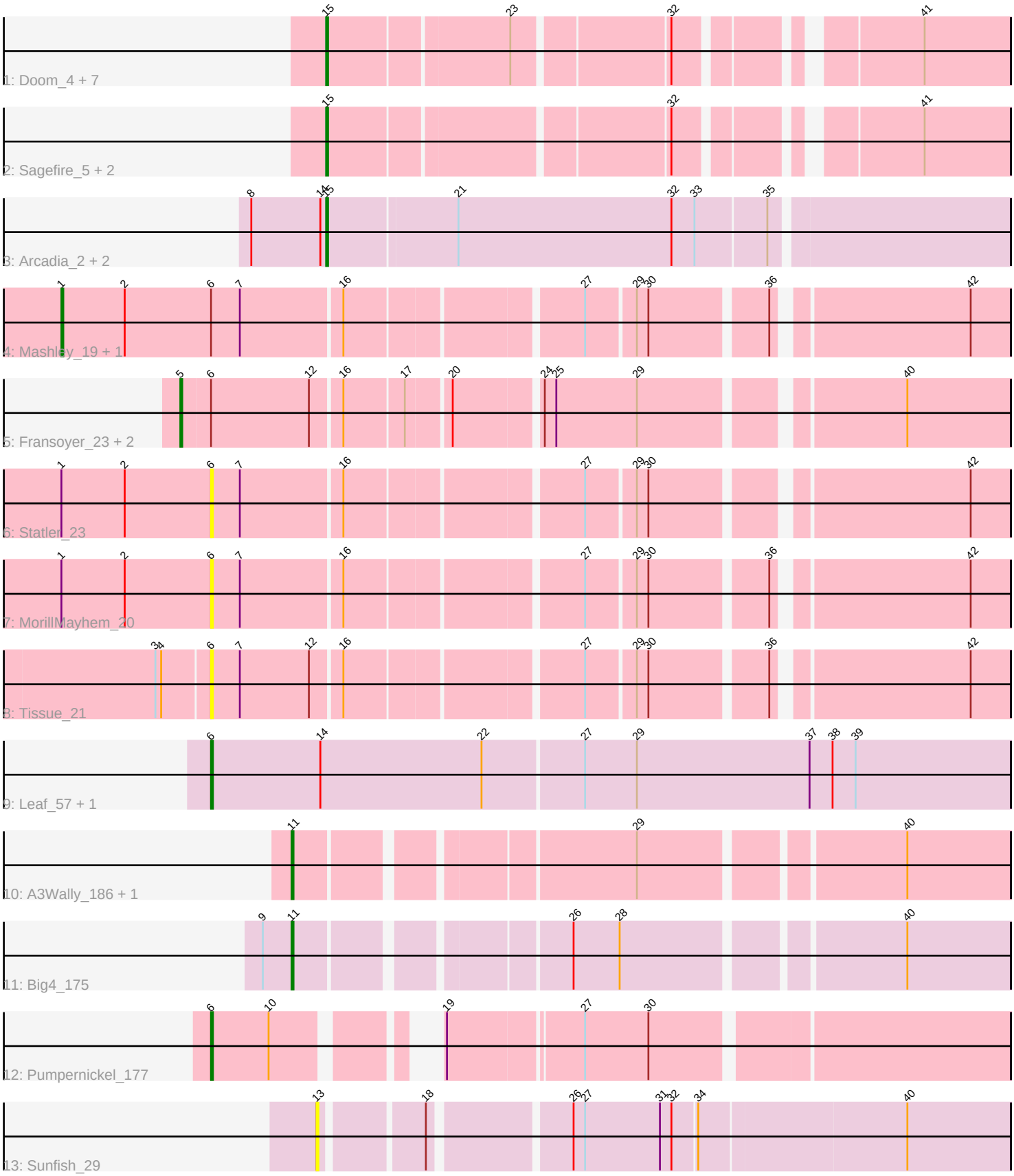
Pham 194249


15
23
32
41
1: Doom_4 + 7
15
32
41
2: Sagefire_5 + 2
8
14
15
21
32
33
35
3: Arcadia_2 + 2
1
2
6
7
16
27
29
30
36
42
4: Mashley_19 + 1
5
6
12
16
17
20
24
25
29
40
5: Fransoyer_23 + 2
1
2
6
7
16
27
29
30
42
6: Statler_23
1
2
6
7
16
27
29
30
36
42
7: MorillMayhem_20
34
6
7
12
16
27
29
30
36
42
8: Tissue_21
6
14
22
27
29
37
38
39
9: Leaf_57 + 1
11
29
40
10: A3Wally_186 + 1
9
11
26
28
40
11: Big4_175
6
10
19
27
30
12: Pumpernickel_177
13
18
26
27
31
32
34
40
13: Sunfish_29

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 194249 Report

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

Pham number 194249 has 29 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Doom_4, ILeeKay_5, Ajay_4, KBG_4, Smairt_4, BigPaolini_5, 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 : Statler_23
• Track 7 : MorillMayhem_20
• Track 8 : Tissue_21
• Track 9 : Leaf_57, Dewdrop_57
• Track 10 : A3Wally_186, PauloDiaboli_185
• Track 11 : Big4_175
• Track 12 : Pumpernickel_177
• Track 13 : Sunfish_29

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

The start number called the most often in the published annotations is 15, it was called in 14 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adahisdi_4, Ajay_4, Arcadia_2, BigPaolini_5, Doom_4, Elsa_2, ILeeKay_5, KBG_4, Nason_2, Oogway_3, 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:
• A3Wally_186, Big4_175, Dewdrop_57, Fransoyer_23, Hyperion_20, Leaf_57, Mashley_19, MorillMayhem_20, PauloDiaboli_185, Pumpernickel_177, RubyRalph_23, SadLad_24, Statler_23, Sunfish_29, Tissue_21,

Summary by start number:

Start 1:
• Found in 4 of 29 (13.8%) of genes in pham
• Manual Annotations of this start: 2 of 25
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Hyperion_20 (EG), Mashley_19 (EG),

Start 5:
• Found in 3 of 29 (10.3%) of genes in pham
• Manual Annotations of this start: 3 of 25
• 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 11 of 29 (37.9%) of genes in pham
• Manual Annotations of this start: 3 of 25
• Called 54.5% of time when present
• Phage (with cluster) where this start called: Dewdrop_57 (GC), Leaf_57 (GC), MorillMayhem_20 (EG), Pumpernickel_177 (GD4), Statler_23 (EG), Tissue_21 (EG),

Start 11:
• Found in 3 of 29 (10.3%) of genes in pham
• Manual Annotations of this start: 3 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_186 (GD1), Big4_175 (GD2), PauloDiaboli_185 (GD1),

Start 13:
• Found in 1 of 29 (3.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sunfish_29 (singleton),

Start 15:
• Found in 14 of 29 (48.3%) of genes in pham
• Manual Annotations of this start: 14 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adahisdi_4 (A1), Ajay_4 (A1), Arcadia_2 (AM), BigPaolini_5 (A1), Doom_4 (A1), Elsa_2 (AM), lLeeKay_5 (A1), KBG_4 (A1), Nason_2 (AM), Oogway_3 (A1), Peterson_5 (A1), Rutherferd_4 (A1), Sagefire_5 (A1), Smairt_4 (A1),

Summary by clusters:

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

Info for manual annotations of cluster A1:
•Start number 15 was manually annotated 11 times for cluster A1.

Info for manual annotations of cluster AM:
•Start number 15 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.

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 11 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 11 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: 11
Candidate Starts for A3Wally_186:
(Start: 11 @101532 has 3 MA's), (29, 101691), (40, 101817),

Gene: Adahisdi_4 Start: 1698, Stop: 2012, Start Num: 15
Candidate Starts for Adahisdi_4:
(Start: 15 @1698 has 14 MA's), (23, 1788), (32, 1863), (41, 1968),

Gene: Ajay_4 Start: 1694, Stop: 2008, Start Num: 15
Candidate Starts for Ajay_4:
(Start: 15 @1694 has 14 MA's), (23, 1784), (32, 1859), (41, 1964),

Gene: Arcadia_2 Start: 525, Stop: 869, Start Num: 15
Candidate Starts for Arcadia_2:
(8, 486), (14, 522), (Start: 15 @525 has 14 MA's), (21, 591), (32, 702), (33, 714), (35, 750),

Gene: Big4_175 Start: 98404, Stop: 98742, Start Num: 11
Candidate Starts for Big4_175:
(9, 98389), (Start: 11 @98404 has 3 MA's), (26, 98530), (28, 98554), (40, 98689),

Gene: BigPaolini_5 Start: 2209, Stop: 2523, Start Num: 15
Candidate Starts for BigPaolini_5:
(Start: 15 @2209 has 14 MA's), (23, 2299), (32, 2374), (41, 2479),

Gene: Dewdrop_57 Start: 24658, Stop: 25071, Start Num: 6
Candidate Starts for Dewdrop_57:
(Start: 6 @24658 has 3 MA's), (14, 24715), (22, 24799), (27, 24850), (29, 24877), (37, 24967), (38, 24979), (39, 24991),

Gene: Doom_4 Start: 1700, Stop: 2014, Start Num: 15
Candidate Starts for Doom_4:
(Start: 15 @1700 has 14 MA's), (23, 1790), (32, 1865), (41, 1970),

Gene: Elsa_2 Start: 525, Stop: 869, Start Num: 15
Candidate Starts for Elsa_2:
(8, 486), (14, 522), (Start: 15 @525 has 14 MA's), (21, 591), (32, 702), (33, 714), (35, 750),

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 3 MA's), (12, 8561), (16, 8576), (17, 8606), (20, 8627), (24, 8669), (25, 8675), (29, 8717), (40, 8840),

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 3 MA's), (7, 8287), (16, 8338), (27, 8452), (29, 8476), (30, 8482), (36, 8539), (42, 8632),

Gene: ILeeKay_5 Start: 1874, Stop: 2188, Start Num: 15
Candidate Starts for ILeeKay_5:
(Start: 15 @1874 has 14 MA's), (23, 1964), (32, 2039), (41, 2144),

Gene: KBG_4 Start: 1933, Stop: 2247, Start Num: 15
Candidate Starts for KBG_4:
(Start: 15 @1933 has 14 MA's), (23, 2023), (32, 2098), (41, 2203),

Gene: Leaf_57 Start: 24658, Stop: 25071, Start Num: 6
Candidate Starts for Leaf_57:
(Start: 6 @24658 has 3 MA's), (14, 24715), (22, 24799), (27, 24850), (29, 24877), (37, 24967), (38, 24979), (39, 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 3 MA's), (7, 8098), (16, 8149), (27, 8263), (29, 8287), (30, 8293), (36, 8350), (42, 8443),

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 3 MA's), (7, 8106), (16, 8157), (27, 8271), (29, 8295), (30, 8301), (36, 8358), (42, 8451),

Gene: Nason_2 Start: 525, Stop: 869, Start Num: 15
Candidate Starts for Nason_2:
(8, 486), (14, 522), (Start: 15 @525 has 14 MA's), (21, 591), (32, 702), (33, 714), (35, 750),

Gene: Oogway_3 Start: 1553, Stop: 1867, Start Num: 15
Candidate Starts for Oogway_3:
(Start: 15 @1553 has 14 MA's), (23, 1643), (32, 1718), (41, 1823),

Gene: PauloDiaboli_185 Start: 99579, Stop: 99917, Start Num: 11
Candidate Starts for PauloDiaboli_185:
(Start: 11 @99579 has 3 MA's), (29, 99738), (40, 99864),

Gene: Peterson_5 Start: 2390, Stop: 2704, Start Num: 15
Candidate Starts for Peterson_5:
(Start: 15 @2390 has 14 MA's), (32, 2555), (41, 2660),

Gene: Pumpernickel_177 Start: 101023, Stop: 101388, Start Num: 6
Candidate Starts for Pumpernickel_177:
(Start: 6 @101023 has 3 MA's), (10, 101053), (19, 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 3 MA's), (12, 8495), (16, 8510), (17, 8540), (20, 8561), (24, 8603), (25, 8609), (29, 8651), (40, 8774),

Gene: Rutherferd_4 Start: 1660, Stop: 1974, Start Num: 15
Candidate Starts for Rutherferd_4:
(Start: 15 @1660 has 14 MA's), (32, 1825), (41, 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 3 MA's), (12, 8952), (16, 8967), (17, 8997), (20, 9018), (24, 9060), (25, 9066), (29, 9108), (40, 9231),

Gene: Sagefire_5 Start: 1861, Stop: 2175, Start Num: 15
Candidate Starts for Sagefire_5:
(Start: 15 @1861 has 14 MA's), (32, 2026), (41, 2131),

Gene: Smairt_4 Start: 2007, Stop: 2321, Start Num: 15
Candidate Starts for Smairt_4:
(Start: 15 @2007 has 14 MA's), (23, 2097), (32, 2172), (41, 2277),

Gene: Statler_23 Start: 8569, Stop: 8949, Start Num: 6
Candidate Starts for Statler_23:
(Start: 1 @8491 has 2 MA's), (2, 8524), (Start: 6 @8569 has 3 MA's), (7, 8584), (16, 8635), (27, 8749), (29, 8773), (30, 8779), (42, 8929),

Gene: Sunfish_29 Start: 14435, Stop: 14770, Start Num: 13
Candidate Starts for Sunfish_29:
(13, 14435), (18, 14483), (26, 14549), (27, 14555), (31, 14594), (32, 14600), (34, 14612), (40, 14717),

Gene: Tissue_21 Start: 8398, Stop: 8778, Start Num: 6
Candidate Starts for Tissue_21:
(3, 8371), (4, 8374), (Start: 6 @8398 has 3 MA's), (7, 8413), (12, 8449), (16, 8464), (27, 8578), (29, 8602), (30, 8608), (36, 8665), (42, 8758),