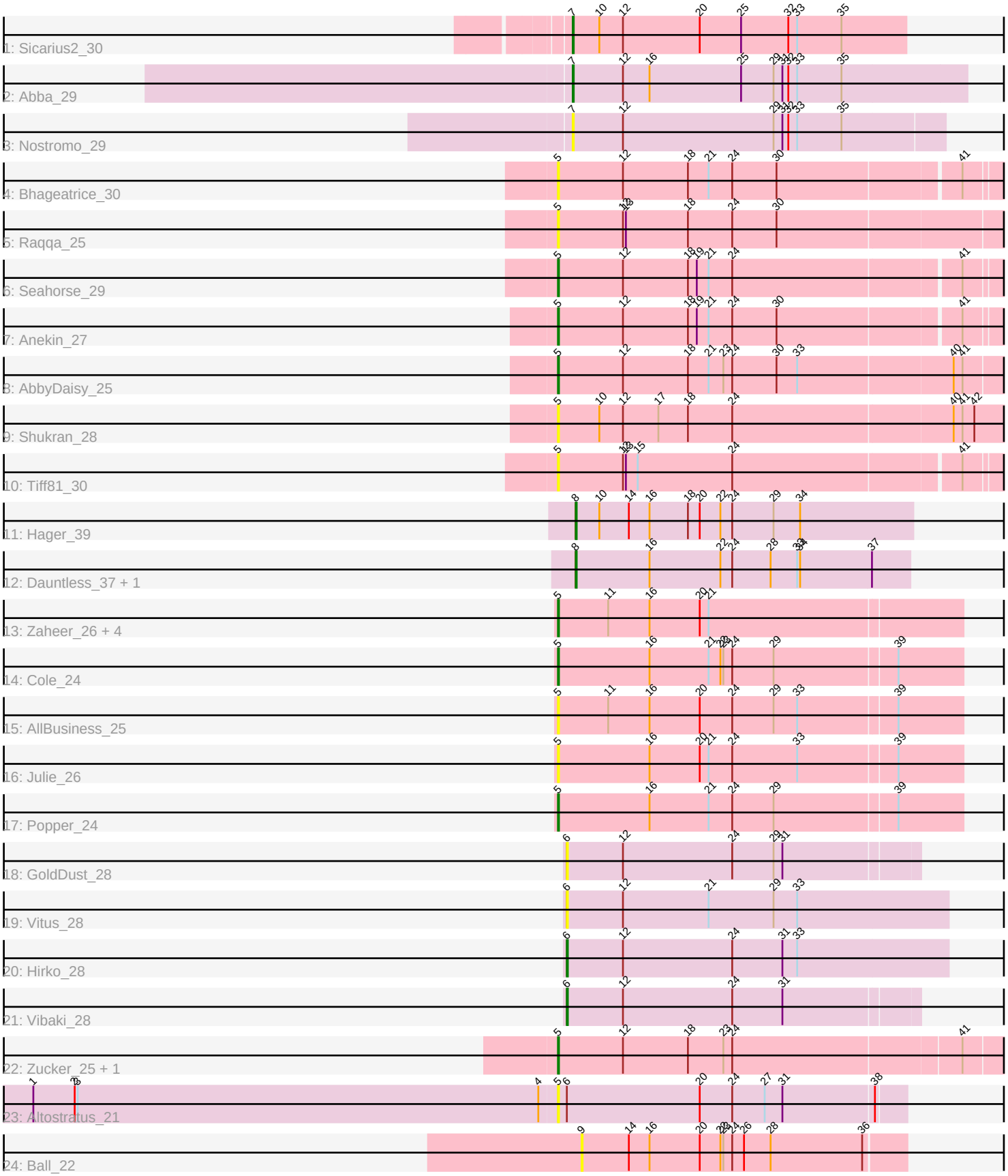
Pham 198288


1: Sicarius2_30
2: Abba_29
3: Nostromo_29
4: Bhageatrice_30
5: Raqqa_25
6: Seahorse_29
7: Anekin_27
8: AbbyDaisy_25
9: Shukran_28
10: Tiff81_30
11: Hager_39
12: Dauntless_37 + 1
13: Zaheer_26 + 4
14: Cole_24
15: AllBusiness_25
16: Julie_26
17: Popper_24
18: GoldDust_28
19: Vitus_28
20: Hirko_28
21: Vibaki_28
22: Zucker_25 + 1
23: Altostratus_21
24: Ball_22

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 198288 Report

This analysis was run 01/18/25 on database version 583.

Pham number 198288 has 30 members, 13 are drafts.

Phages represented in each track:
- Track 1 : Sicarius2_30
- Track 2 : Abba_29
- Track 3 : Nostromo_29
- Track 4 : Bhageatrice_30
- Track 5 : Raqqa_25
- Track 6 : Seahorse_29
- Track 7 : Anekin_27
- Track 8 : AbbyDaisy_25
- Track 9 : Shukran_28
- Track 10 : Tiff81_30
- Track 11 : Hager_39
- Track 12 : Dauntless_37, Erudite_37
- Track 13 : Zaheer_26, Nandita_26, Lenoxika_26, Ryan_26, Kihatsu_27
- Track 14 : Cole_24
- Track 15 : AllBusiness_25
- Track 16 : Julie_26
- Track 17 : Popper_24
- Track 18 : GoldDust_28
- Track 19 : Vitus_28
- Track 20 : Hirko_28
- Track 21 : Vibaki_28
- Track 22 : Zucker_25, Bauer_26
- Track 23 : Altostratus_21
- Track 24 : Ball_22

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

The start number called the most often in the published annotations is 5, it was called in 10 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- AbbyDaisy_25, AllBusiness_25, Altostratus_21, Anekin_27, Bauer_26, Bhageatrice_30, Cole_24, Julie_26, Kihatsu_27, Lenoxika_26, Nandita_26, Popper_24, Raqqa_25, Ryan_26, Seahorse_29, Shukran_28, Tiff81_30, Zaheer_26,

Zucker_25,

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

Genes that do not have the "Most Annotated" start:
• Abba_29, Ball_22, Dauntless_37, Erudite_37, GoldDust_28, Hager_39, Hirko_28, Nostromo_29, Sicarius2_30, Vibaki_28, Vitus_28,

Summary by start number:

Start 5:
• Found in 19 of 30 (63.3%) of genes in pham
• Manual Annotations of this start: 10 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AbbyDaisy_25 (AY), AllBusiness_25 (FF), Altostratus_21 (FS), Anekin_27 (AY), Bauer_26 (FN), Bhageatrice_30 (AY), Cole_24 (FF), Julie_26 (FF), Kihatsu_27 (FF), Lenoxika_26 (FF), Nandita_26 (FF), Popper_24 (FF), Raqqa_25 (AY), Ryan_26 (FF), Seahorse_29 (AY), Shukran_28 (AY), Tiff81_30 (AY), Zaheer_26 (FF), Zucker_25 (FN),

Start 6:
• Found in 5 of 30 (16.7%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 80.0% of time when present
• Phage (with cluster) where this start called: GoldDust_28 (FL), Hirko_28 (FL), Vibaki_28 (FL), Vitus_28 (FL),

Start 7:
• Found in 3 of 30 (10.0%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abba_29 (AO3), Nostromo_29 (AO3), Sicarius2_30 (AO2),

Start 8:
• Found in 3 of 30 (10.0%) of genes in pham
• Manual Annotations of this start: 3 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dauntless_37 (EF), Erudite_37 (EF), Hager_39 (EF),

Start 9:
• Found in 1 of 30 (3.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ball_22 (singleton),

Summary by clusters:

There are 9 clusters represented in this pham: singleton, FS, EF, AO3, AO2, FF, AY, FL, FN,

Info for manual annotations of cluster AO2:
•Start number 7 was manually annotated 1 time for cluster AO2.

Info for manual annotations of cluster AO3:
•Start number 7 was manually annotated 1 time for cluster AO3.

Info for manual annotations of cluster AY:
•Start number 5 was manually annotated 3 times for cluster AY.

Info for manual annotations of cluster EF:
•Start number 8 was manually annotated 3 times for cluster EF.

Info for manual annotations of cluster FF:
•Start number 5 was manually annotated 5 times for cluster FF.

Info for manual annotations of cluster FL:
•Start number 6 was manually annotated 2 times for cluster FL.

Info for manual annotations of cluster FN:
•Start number 5 was manually annotated 2 times for cluster FN.

Gene Information:

Gene: Abba_29 Start: 24790, Stop: 25188, Start Num: 7
Candidate Starts for Abba_29:
(Start: 7 @24790 has 2 MA's), (12, 24841), (16, 24868), (25, 24961), (29, 24994), (31, 25003), (32, 25009), (33, 25018), (35, 25063),

Gene: AbbyDaisy_25 Start: 19357, Stop: 19806, Start Num: 5
Candidate Starts for AbbyDaisy_25:
(Start: 5 @19357 has 10 MA's), (12, 19423), (18, 19489), (21, 19510), (23, 19525), (24, 19534), (30, 19579), (33, 19600), (40, 19753), (41, 19762),

Gene: AllBusiness_25 Start: 19877, Stop: 20281, Start Num: 5
Candidate Starts for AllBusiness_25:
(Start: 5 @19877 has 10 MA's), (11, 19928), (16, 19970), (20, 20021), (24, 20054), (29, 20096), (33, 20120), (39, 20216),

Gene: Altostratus_21 Start: 17562, Stop: 17909, Start Num: 5
Candidate Starts for Altostratus_21:
(1, 17031), (2, 17073), (3, 17076), (4, 17544), (Start: 5 @17562 has 10 MA's), (Start: 6 @17571 has 2 MA's), (20, 17706), (24, 17739), (27, 17772), (31, 17790), (38, 17880),

Gene: Anekin_27 Start: 20364, Stop: 20804, Start Num: 5
Candidate Starts for Anekin_27:
(Start: 5 @20364 has 10 MA's), (12, 20430), (18, 20496), (19, 20505), (21, 20517), (24, 20541), (30, 20586), (41, 20763),

Gene: Ball_22 Start: 18509, Stop: 18835, Start Num: 9
Candidate Starts for Ball_22:

(9, 18509), (14, 18557), (16, 18578), (20, 18629), (22, 18650), (23, 18653), (24, 18662), (26, 18674), (28, 18701), (36, 18794),

Gene: Bauer_26 Start: 20069, Stop: 20515, Start Num: 5
Candidate Starts for Bauer_26:
(Start: 5 @20069 has 10 MA's), (12, 20135), (18, 20201), (23, 20237), (24, 20246), (41, 20471),

Gene: Bhageatrice_30 Start: 21686, Stop: 22126, Start Num: 5
Candidate Starts for Bhageatrice_30:
(Start: 5 @21686 has 10 MA's), (12, 21752), (18, 21818), (21, 21839), (24, 21863), (30, 21908), (41, 22085),

Gene: Cole_24 Start: 19378, Stop: 19782, Start Num: 5
Candidate Starts for Cole_24:
(Start: 5 @19378 has 10 MA's), (16, 19471), (21, 19531), (22, 19543), (23, 19546), (24, 19555), (29, 19597), (39, 19717),

Gene: Dauntless_37 Start: 24444, Stop: 24782, Start Num: 8
Candidate Starts for Dauntless_37:
(Start: 8 @24444 has 3 MA's), (16, 24519), (22, 24591), (24, 24603), (28, 24642), (33, 24669), (34, 24672), (37, 24744),

Gene: Erudite_37 Start: 24444, Stop: 24782, Start Num: 8
Candidate Starts for Erudite_37:
(Start: 8 @24444 has 3 MA's), (16, 24519), (22, 24591), (24, 24603), (28, 24642), (33, 24669), (34, 24672), (37, 24744),

Gene: GoldDust_28 Start: 26513, Stop: 26863, Start Num: 6
Candidate Starts for GoldDust_28:
(Start: 6 @26513 has 2 MA's), (12, 26570), (24, 26681), (29, 26723), (31, 26732),

Gene: Hager_39 Start: 24364, Stop: 24705, Start Num: 8
Candidate Starts for Hager_39:
(Start: 8 @24364 has 3 MA's), (10, 24388), (14, 24418), (16, 24439), (18, 24478), (20, 24490), (22, 24511), (24, 24523), (29, 24565), (34, 24592),

Gene: Hirko_28 Start: 26841, Stop: 27227, Start Num: 6
Candidate Starts for Hirko_28:
(Start: 6 @26841 has 2 MA's), (12, 26898), (24, 27009), (31, 27060), (33, 27075),

Gene: Julie_26 Start: 20028, Stop: 20432, Start Num: 5
Candidate Starts for Julie_26:
(Start: 5 @20028 has 10 MA's), (16, 20121), (20, 20172), (21, 20181), (24, 20205), (33, 20271), (39, 20367),

Gene: Kihatsu_27 Start: 19902, Stop: 20306, Start Num: 5
Candidate Starts for Kihatsu_27:
(Start: 5 @19902 has 10 MA's), (11, 19953), (16, 19995), (20, 20046), (21, 20055),

Gene: Lenoxika_26 Start: 19573, Stop: 19977, Start Num: 5
Candidate Starts for Lenoxika_26:
(Start: 5 @19573 has 10 MA's), (11, 19624), (16, 19666), (20, 19717), (21, 19726),

Gene: Nandita_26 Start: 19577, Stop: 19981, Start Num: 5
Candidate Starts for Nandita_26:
(Start: 5 @19577 has 10 MA's), (11, 19628), (16, 19670), (20, 19721), (21, 19730),

Gene: Nostromo_29 Start: 24269, Stop: 24643, Start Num: 7
Candidate Starts for Nostromo_29:
(Start: 7 @24269 has 2 MA's), (12, 24320), (29, 24473), (31, 24482), (32, 24488), (33, 24497), (35, 24542),

Gene: Popper_24 Start: 19482, Stop: 19886, Start Num: 5
Candidate Starts for Popper_24:
(Start: 5 @19482 has 10 MA's), (16, 19575), (21, 19635), (24, 19659), (29, 19701), (39, 19821),

Gene: Raqqa_25 Start: 19651, Stop: 20100, Start Num: 5
Candidate Starts for Raqqa_25:
(Start: 5 @19651 has 10 MA's), (12, 19717), (13, 19720), (18, 19783), (24, 19828), (30, 19873),

Gene: Ryan_26 Start: 20167, Stop: 20571, Start Num: 5
Candidate Starts for Ryan_26:
(Start: 5 @20167 has 10 MA's), (11, 20218), (16, 20260), (20, 20311), (21, 20320),

Gene: Seahorse_29 Start: 20763, Stop: 21203, Start Num: 5
Candidate Starts for Seahorse_29:
(Start: 5 @20763 has 10 MA's), (12, 20829), (18, 20895), (19, 20904), (21, 20916), (24, 20940), (41, 21162),

Gene: Shukran_28 Start: 20319, Stop: 20777, Start Num: 5
Candidate Starts for Shukran_28:
(Start: 5 @20319 has 10 MA's), (10, 20361), (12, 20385), (17, 20421), (18, 20451), (24, 20496), (40, 20715), (41, 20724), (42, 20736),

Gene: Sicarius2_30 Start: 24899, Stop: 25237, Start Num: 7
Candidate Starts for Sicarius2_30:
(Start: 7 @24899 has 2 MA's), (10, 24926), (12, 24950), (20, 25028), (25, 25070), (32, 25118), (33, 25127), (35, 25172),

Gene: Tiff81_30 Start: 20491, Stop: 20931, Start Num: 5
Candidate Starts for Tiff81_30:
(Start: 5 @20491 has 10 MA's), (12, 20557), (13, 20560), (15, 20572), (24, 20668), (41, 20890),

Gene: Vibaki_28 Start: 26388, Stop: 26738, Start Num: 6
Candidate Starts for Vibaki_28:
(Start: 6 @26388 has 2 MA's), (12, 26445), (24, 26556), (31, 26607),

Gene: Vitus_28 Start: 23173, Stop: 23559, Start Num: 6
Candidate Starts for Vitus_28:
(Start: 6 @23173 has 2 MA's), (12, 23230), (21, 23317), (29, 23383), (33, 23407),

Gene: Zaheer_26 Start: 20256, Stop: 20660, Start Num: 5
Candidate Starts for Zaheer_26:
(Start: 5 @20256 has 10 MA's), (11, 20307), (16, 20349), (20, 20400), (21, 20409),

Gene: Zucker_25 Start: 19382, Stop: 19828, Start Num: 5

Candidate Starts for Zucker_25:
(Start: 5 @19382 has 10 MA's), (12, 19448), (18, 19514), (23, 19550), (24, 19559), (41, 19784),