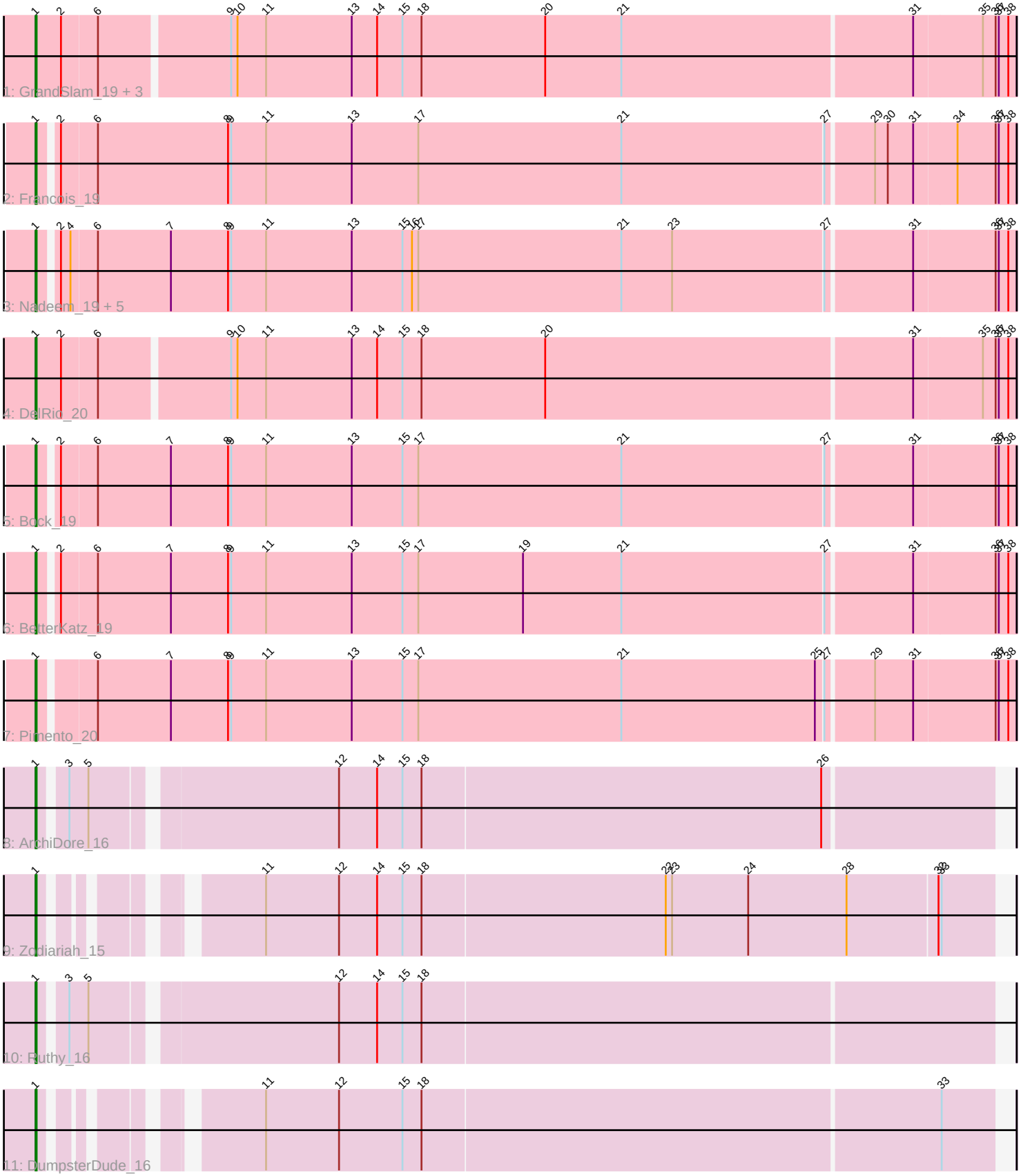
# Pham 284214


1: GrandSlam_19 + 3
2: Francois_19
3: Nadeem_19 + 5
4: DelRio_20
5: Bock_19
6: BetterKatz_19
7: Pimento_20
8: ArchiDore_16
9: Zodiariah_15
10: Ruthy_16
11: DumpsterDude_16

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 284214 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284214 has 19 members, 0 are drafts.

Phages represented in each track:
• Track 1 : GrandSlam_19, Ayotoya_19, Chop_19, Hamood_19
• Track 2 : Francois_19
• Track 3 : Nadeem_19, Parada_19, NancyRae_19, Brylie_19, WheatThin_18, Mulch_19
• Track 4 : DelRio_20
• Track 5 : Bock_19
• Track 6 : BetterKatz_19
• Track 7 : Pimento_20
• Track 8 : ArchiDore_16
• Track 9 : Zodiariah_15
• Track 10 : Ruthy_16
• Track 11 : DumpsterDude_16

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

The start number called the most often in the published annotations is 1, it was called in 19 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ArchiDore_16, Ayotoya_19, BetterKatz_19, Bock_19, Brylie_19, Chop_19, DelRio_20, DumpsterDude_16, Francois_19, GrandSlam_19, Hamood_19, Mulch_19, Nadeem_19, NancyRae_19, Parada_19, Pimento_20, Ruthy_16, WheatThin_18, Zodiariah_15,

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

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

**Summary by start number:**

Start 1:
• Found in 19 of 19 ( 100.0% ) of genes in pham

• Manual Annotations of this start: 19 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArchiDore_16 (DW), Ayotoya_19 (DI), BetterKatz_19 (DI), Bock_19 (DI), Brylie_19 (DI), Chop_19 (DI), DelRio_20 (DI), DumpsterDude_16 (DW), Francois_19 (DI), GrandSlam_19 (DI), Hamood_19 (DI), Mulch_19 (DI), Nadeem_19 (DI), NancyRae_19 (DI), Parada_19 (DI), Pimento_20 (DI), Ruthy_16 (DW), WheatThin_18 (DI), Zodiariah_15 (DW),

**Summary by clusters:**

There are 2 clusters represented in this pham: DW, DI,

Info for manual annotations of cluster DI:
•Start number 1 was manually annotated 15 times for cluster DI.

Info for manual annotations of cluster DW:
•Start number 1 was manually annotated 4 times for cluster DW.

***Gene Information:***

Gene: ArchiDore_16 Start: 9329, Stop: 10194, Start Num: 1
Candidate Starts for ArchiDore_16:
(Start: 1 @9329 has 19 MA's), (3, 9350), (5, 9368), (12, 9584), (14, 9620), (15, 9644), (18, 9662), (26, 10037),

Gene: Ayotoya_19 Start: 10919, Stop: 11826, Start Num: 1
Candidate Starts for Ayotoya_19:
(Start: 1 @10919 has 19 MA's), (2, 10943), (6, 10976), (9, 11093), (10, 11099), (11, 11126), (13, 11207), (14, 11231), (15, 11255), (18, 11273), (20, 11390), (21, 11462), (31, 11732), (35, 11795), (36, 11807), (37, 11810), (38, 11819),

Gene: BetterKatz_19 Start: 10860, Stop: 11764, Start Num: 1
Candidate Starts for BetterKatz_19:
(Start: 1 @10860 has 19 MA's), (2, 10875), (6, 10908), (7, 10977), (8, 11031), (9, 11034), (11, 11067), (13, 11148), (15, 11196), (17, 11211), (19, 11310), (21, 11403), (27, 11592), (31, 11670), (36, 11745), (37, 11748), (38, 11757),

Gene: Bock_19 Start: 10610, Stop: 11514, Start Num: 1
Candidate Starts for Bock_19:
(Start: 1 @10610 has 19 MA's), (2, 10625), (6, 10658), (7, 10727), (8, 10781), (9, 10784), (11, 10817), (13, 10898), (15, 10946), (17, 10961), (21, 11153), (27, 11342), (31, 11420), (36, 11495), (37, 11498), (38, 11507),

Gene: Brylie_19 Start: 10607, Stop: 11511, Start Num: 1
Candidate Starts for Brylie_19:
(Start: 1 @10607 has 19 MA's), (2, 10622), (4, 10631), (6, 10655), (7, 10724), (8, 10778), (9, 10781), (11, 10814), (13, 10895), (15, 10943), (16, 10952), (17, 10958), (21, 11150), (23, 11198), (27, 11339), (31, 11417), (36, 11492), (37, 11495), (38, 11504),

Gene: Chop_19 Start: 10667, Stop: 11574, Start Num: 1
Candidate Starts for Chop_19:

(Start: 1 @10667 has 19 MA's), (2, 10691), (6, 10724), (9, 10841), (10, 10847), (11, 10874), (13, 10955), (14, 10979), (15, 11003), (18, 11021), (20, 11138), (21, 11210), (31, 11480), (35, 11543), (36, 11555), (37, 11558), (38, 11567),

Gene: DelRio_20 Start: 11141, Stop: 12048, Start Num: 1
Candidate Starts for DelRio_20:
(Start: 1 @11141 has 19 MA's), (2, 11165), (6, 11198), (9, 11315), (10, 11321), (11, 11348), (13, 11429), (14, 11453), (15, 11477), (18, 11495), (20, 11612), (31, 11954), (35, 12017), (36, 12029), (37, 12032), (38, 12041),

Gene: DumpsterDude_16 Start: 9345, Stop: 10174, Start Num: 1
Candidate Starts for DumpsterDude_16:
(Start: 1 @9345 has 19 MA's), (11, 9495), (12, 9564), (15, 9624), (18, 9642), (33, 10125),

Gene: Francois_19 Start: 10624, Stop: 11528, Start Num: 1
Candidate Starts for Francois_19:
(Start: 1 @10624 has 19 MA's), (2, 10639), (6, 10672), (8, 10795), (9, 10798), (11, 10831), (13, 10912), (17, 10975), (21, 11167), (27, 11356), (29, 11398), (30, 11410), (31, 11434), (34, 11473), (36, 11509), (37, 11512), (38, 11521),

Gene: GrandSlam_19 Start: 10667, Stop: 11574, Start Num: 1
Candidate Starts for GrandSlam_19:
(Start: 1 @10667 has 19 MA's), (2, 10691), (6, 10724), (9, 10841), (10, 10847), (11, 10874), (13, 10955), (14, 10979), (15, 11003), (18, 11021), (20, 11138), (21, 11210), (31, 11480), (35, 11543), (36, 11555), (37, 11558), (38, 11567),

Gene: Hamood_19 Start: 10667, Stop: 11574, Start Num: 1
Candidate Starts for Hamood_19:
(Start: 1 @10667 has 19 MA's), (2, 10691), (6, 10724), (9, 10841), (10, 10847), (11, 10874), (13, 10955), (14, 10979), (15, 11003), (18, 11021), (20, 11138), (21, 11210), (31, 11480), (35, 11543), (36, 11555), (37, 11558), (38, 11567),

Gene: Mulch_19 Start: 10607, Stop: 11511, Start Num: 1
Candidate Starts for Mulch_19:
(Start: 1 @10607 has 19 MA's), (2, 10622), (4, 10631), (6, 10655), (7, 10724), (8, 10778), (9, 10781), (11, 10814), (13, 10895), (15, 10943), (16, 10952), (17, 10958), (21, 11150), (23, 11198), (27, 11339), (31, 11417), (36, 11492), (37, 11495), (38, 11504),

Gene: Nadeem_19 Start: 10607, Stop: 11511, Start Num: 1
Candidate Starts for Nadeem_19:
(Start: 1 @10607 has 19 MA's), (2, 10622), (4, 10631), (6, 10655), (7, 10724), (8, 10778), (9, 10781), (11, 10814), (13, 10895), (15, 10943), (16, 10952), (17, 10958), (21, 11150), (23, 11198), (27, 11339), (31, 11417), (36, 11492), (37, 11495), (38, 11504),

Gene: NancyRae_19 Start: 10607, Stop: 11511, Start Num: 1
Candidate Starts for NancyRae_19:
(Start: 1 @10607 has 19 MA's), (2, 10622), (4, 10631), (6, 10655), (7, 10724), (8, 10778), (9, 10781), (11, 10814), (13, 10895), (15, 10943), (16, 10952), (17, 10958), (21, 11150), (23, 11198), (27, 11339), (31, 11417), (36, 11492), (37, 11495), (38, 11504),

Gene: Parada_19 Start: 10607, Stop: 11511, Start Num: 1
Candidate Starts for Parada_19:

(Start: 1 @10607 has 19 MA's), (2, 10622), (4, 10631), (6, 10655), (7, 10724), (8, 10778), (9, 10781), (11, 10814), (13, 10895), (15, 10943), (16, 10952), (17, 10958), (21, 11150), (23, 11198), (27, 11339), (31, 11417), (36, 11492), (37, 11495), (38, 11504),

Gene: Pimento_20 Start: 10811, Stop: 11715, Start Num: 1
Candidate Starts for Pimento_20:
(Start: 1 @10811 has 19 MA's), (6, 10859), (7, 10928), (8, 10982), (9, 10985), (11, 11018), (13, 11099), (15, 11147), (17, 11162), (21, 11354), (25, 11537), (27, 11543), (29, 11585), (31, 11621), (36, 11696), (37, 11699), (38, 11708),

Gene: Ruthy_16 Start: 9419, Stop: 10284, Start Num: 1
Candidate Starts for Ruthy_16:
(Start: 1 @9419 has 19 MA's), (3, 9440), (5, 9458), (12, 9674), (14, 9710), (15, 9734), (18, 9752),

Gene: WheatThin_18 Start: 10607, Stop: 11511, Start Num: 1
Candidate Starts for WheatThin_18:
(Start: 1 @10607 has 19 MA's), (2, 10622), (4, 10631), (6, 10655), (7, 10724), (8, 10778), (9, 10781), (11, 10814), (13, 10895), (15, 10943), (16, 10952), (17, 10958), (21, 11150), (23, 11198), (27, 11339), (31, 11417), (36, 11492), (37, 11495), (38, 11504),

Gene: Zodiariah_15 Start: 9098, Stop: 9930, Start Num: 1
Candidate Starts for Zodiariah_15:
(Start: 1 @9098 has 19 MA's), (11, 9248), (12, 9317), (14, 9353), (15, 9377), (18, 9395), (22, 9623), (23, 9629), (24, 9701), (28, 9794), (32, 9878), (33, 9881),