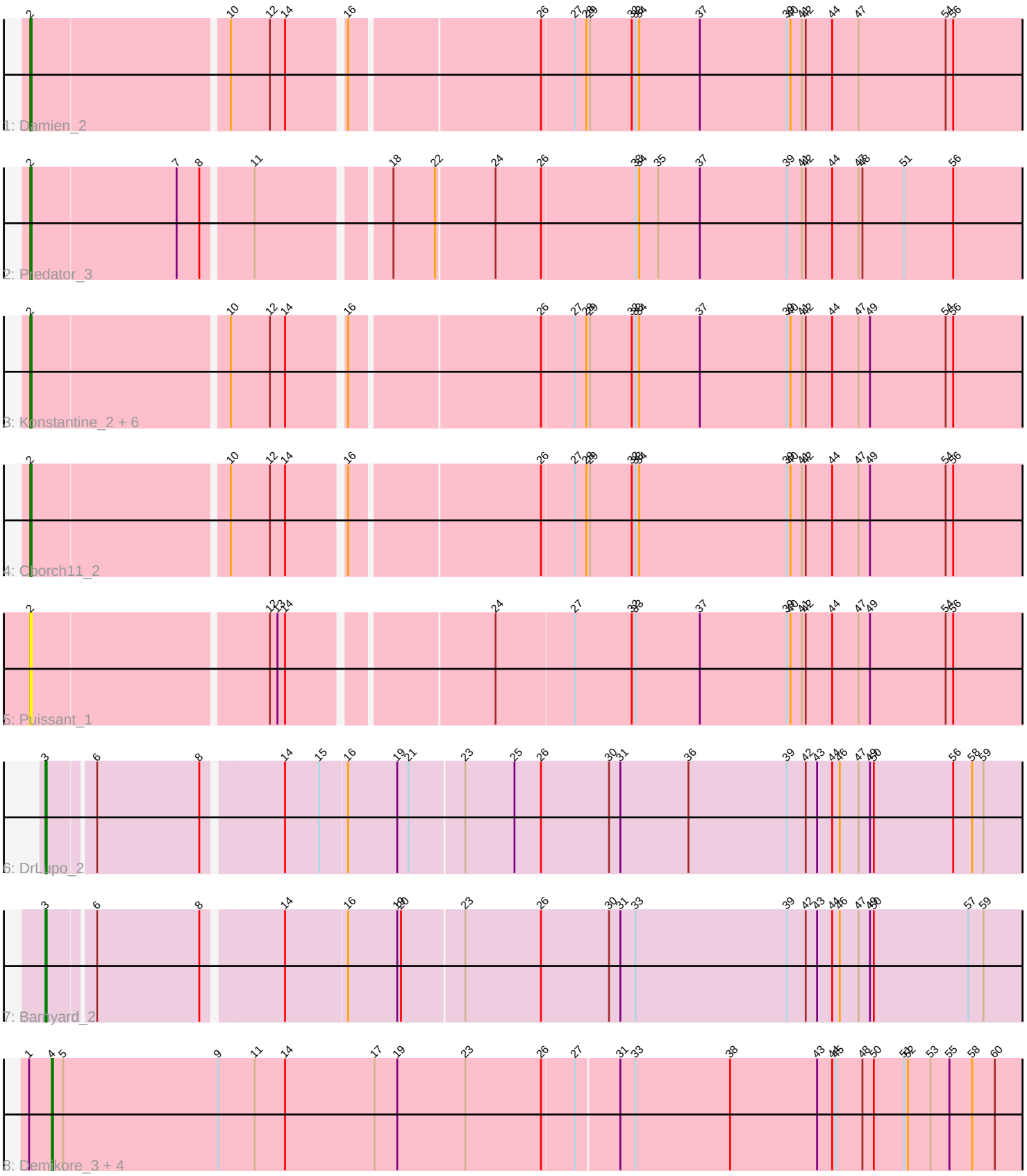
Zoomed Pham 289816



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 289816 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289816 has 18 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Damien_2
• Track 2 : Predator_3
• Track 3 : Konstantine_2, Megatron06_2, BobtimousPrime_2, Thumb_2, Beckerton_2, Phreeze_2, Oaker_2
• Track 4 : Cborch11_2
• Track 5 : Puissant_1
• Track 6 : DrLupo_2
• Track 7 : Barnyard_2
• Track 8 : Demikore_3, SuperSonics_3, Labelle_3, Patience_3, Madruga_3

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

The start number called the most often in the published annotations is 2, it was called in 9 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beckerton_2, BobtimousPrime_2, Cborch11_2, Damien_2, Konstantine_2, Megatron06_2, Oaker_2, Phreeze_2, Predator_3, Puissant_1, Thumb_2,

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

Genes that do not have the "Most Annotated" start:
• Barnyard_2, Demikore_3, DrLupo_2, Labelle_3, Madruga_3, Patience_3, SuperSonics_3,

Summary by start number:

Start 2:
• Found in 11 of 18 (61.1%) of genes in pham
• Manual Annotations of this start: 9 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beckerton_2 (H1), BobtimousPrime_2 (H1), Cborch11_2 (H1), Damien_2 (H1), Konstantine_2 (H1), Megatron06_2 (H1),

Oaker_2 (H1), Phreeze_2 (H1), Predator_3 (H1), Puissant_1 (H1), Thumb_2 (H1),

Start 3:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Barnyard_2 (H2), DrLupo_2 (H2),

Start 4:
• Found in 5 of 18 (27.8%) of genes in pham
• Manual Annotations of this start: 3 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Demikore_3 (U), Labelle_3 (U), Madruga_3 (U), Patience_3 (U), SuperSonics_3 (U),

Summary by clusters:

There are 3 clusters represented in this pham: H2, H1, U,

Info for manual annotations of cluster H1:
•Start number 2 was manually annotated 9 times for cluster H1.

Info for manual annotations of cluster H2:
•Start number 3 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster U:
•Start number 4 was manually annotated 3 times for cluster U.

Gene Information:

Gene: Barnyard_2 Start: 356, Stop: 1642, Start Num: 3
Candidate Starts for Barnyard_2:
(Start: 3 @356 has 2 MA's), (6, 389), (8, 470), (14, 527), (16, 575), (19, 614), (20, 617), (23, 665), (26, 725), (30, 779), (31, 788), (33, 800), (39, 920), (42, 935), (43, 944), (44, 956), (46, 962), (47, 977), (49, 986), (50, 989), (57, 1064), (59, 1076), (61, 1124), (64, 1226), (67, 1280), (76, 1493), (78, 1514), (79, 1532),

Gene: Beckerton_2 Start: 355, Stop: 1668, Start Num: 2
Candidate Starts for Beckerton_2:
(Start: 2 @355 has 9 MA's), (10, 505), (12, 535), (14, 547), (16, 589), (26, 733), (27, 757), (28, 766), (29, 769), (32, 802), (33, 805), (34, 808), (37, 856), (39, 925), (40, 928), (41, 937), (42, 940), (44, 961), (47, 982), (49, 991), (54, 1051), (56, 1057), (62, 1177), (72, 1459), (76, 1531), (84, 1657),

Gene: BobtimousPrime_2 Start: 355, Stop: 1668, Start Num: 2
Candidate Starts for BobtimousPrime_2:
(Start: 2 @355 has 9 MA's), (10, 505), (12, 535), (14, 547), (16, 589), (26, 733), (27, 757), (28, 766), (29, 769), (32, 802), (33, 805), (34, 808), (37, 856), (39, 925), (40, 928), (41, 937), (42, 940), (44, 961), (47, 982), (49, 991), (54, 1051), (56, 1057), (62, 1177), (72, 1459), (76, 1531), (84, 1657),

Gene: Cborch11_2 Start: 355, Stop: 1668, Start Num: 2
Candidate Starts for Cborch11_2:

(Start: 2 @355 has 9 MA's), (10, 505), (12, 535), (14, 547), (16, 589), (26, 733), (27, 757), (28, 766), (29, 769), (32, 802), (33, 805), (34, 808), (39, 925), (40, 928), (41, 937), (42, 940), (44, 961), (47, 982), (49, 991), (54, 1051), (56, 1057), (62, 1177), (72, 1459), (76, 1531), (84, 1657),

Gene: Damien_2 Start: 355, Stop: 1668, Start Num: 2
Candidate Starts for Damien_2:
(Start: 2 @355 has 9 MA's), (10, 505), (12, 535), (14, 547), (16, 589), (26, 733), (27, 757), (28, 766), (29, 769), (32, 802), (33, 805), (34, 808), (37, 856), (39, 925), (40, 928), (41, 937), (42, 940), (44, 961), (47, 982), (54, 1051), (56, 1057), (62, 1177), (72, 1459), (76, 1531), (84, 1657),

Gene: Demikore_3 Start: 668, Stop: 2029, Start Num: 4
Candidate Starts for Demikore_3:
(1, 650), (Start: 4 @668 has 3 MA's), (5, 677), (9, 800), (11, 827), (14, 851), (17, 920), (19, 938), (23, 992), (26, 1052), (27, 1076), (31, 1109), (33, 1121), (38, 1196), (43, 1265), (44, 1277), (45, 1280), (48, 1301), (50, 1310), (51, 1334), (52, 1337), (53, 1355), (55, 1370), (58, 1388), (60, 1406), (65, 1592), (66, 1604), (68, 1616), (69, 1673), (76, 1853), (79, 1904), (81, 1943), (82, 1952), (83, 1997),

Gene: DrLupo_2 Start: 334, Stop: 1617, Start Num: 3
Candidate Starts for DrLupo_2:
(Start: 3 @334 has 2 MA's), (6, 367), (8, 448), (14, 505), (15, 532), (16, 553), (19, 592), (21, 601), (23, 643), (25, 682), (26, 703), (30, 757), (31, 766), (36, 820), (39, 898), (42, 913), (43, 922), (44, 934), (46, 940), (47, 955), (49, 964), (50, 967), (56, 1030), (58, 1045), (59, 1054), (63, 1183), (64, 1198), (68, 1258), (71, 1402), (77, 1513), (80, 1534),

Gene: Konstantine_2 Start: 355, Stop: 1668, Start Num: 2
Candidate Starts for Konstantine_2:
(Start: 2 @355 has 9 MA's), (10, 505), (12, 535), (14, 547), (16, 589), (26, 733), (27, 757), (28, 766), (29, 769), (32, 802), (33, 805), (34, 808), (37, 856), (39, 925), (40, 928), (41, 937), (42, 940), (44, 961), (47, 982), (49, 991), (54, 1051), (56, 1057), (62, 1177), (72, 1459), (76, 1531), (84, 1657),

Gene: Labelle_3 Start: 668, Stop: 2029, Start Num: 4
Candidate Starts for Labelle_3:
(1, 650), (Start: 4 @668 has 3 MA's), (5, 677), (9, 800), (11, 827), (14, 851), (17, 920), (19, 938), (23, 992), (26, 1052), (27, 1076), (31, 1109), (33, 1121), (38, 1196), (43, 1265), (44, 1277), (45, 1280), (48, 1301), (50, 1310), (51, 1334), (52, 1337), (53, 1355), (55, 1370), (58, 1388), (60, 1406), (65, 1592), (66, 1604), (68, 1616), (69, 1673), (76, 1853), (79, 1904), (81, 1943), (82, 1952), (83, 1997),

Gene: Madruga_3 Start: 668, Stop: 2029, Start Num: 4
Candidate Starts for Madruga_3:
(1, 650), (Start: 4 @668 has 3 MA's), (5, 677), (9, 800), (11, 827), (14, 851), (17, 920), (19, 938), (23, 992), (26, 1052), (27, 1076), (31, 1109), (33, 1121), (38, 1196), (43, 1265), (44, 1277), (45, 1280), (48, 1301), (50, 1310), (51, 1334), (52, 1337), (53, 1355), (55, 1370), (58, 1388), (60, 1406), (65, 1592), (66, 1604), (68, 1616), (69, 1673), (76, 1853), (79, 1904), (81, 1943), (82, 1952), (83, 1997),

Gene: Megatron06_2 Start: 355, Stop: 1668, Start Num: 2
Candidate Starts for Megatron06_2:
(Start: 2 @355 has 9 MA's), (10, 505), (12, 535), (14, 547), (16, 589), (26, 733), (27, 757), (28, 766), (29, 769), (32, 802), (33, 805), (34, 808), (37, 856), (39, 925), (40, 928), (41, 937), (42, 940), (44, 961), (47, 982), (49, 991), (54, 1051), (56, 1057), (62, 1177), (72, 1459), (76, 1531), (84, 1657),

Gene: Oaker_2 Start: 355, Stop: 1668, Start Num: 2
Candidate Starts for Oaker_2:

(Start: 2 @355 has 9 MA's), (10, 505), (12, 535), (14, 547), (16, 589), (26, 733), (27, 757), (28, 766), (29, 769), (32, 802), (33, 805), (34, 808), (37, 856), (39, 925), (40, 928), (41, 937), (42, 940), (44, 961), (47, 982), (49, 991), (54, 1051), (56, 1057), (62, 1177), (72, 1459), (76, 1531), (84, 1657),

Gene: Patience_3 Start: 668, Stop: 2029, Start Num: 4
Candidate Starts for Patience_3:
(1, 650), (Start: 4 @668 has 3 MA's), (5, 677), (9, 800), (11, 827), (14, 851), (17, 920), (19, 938), (23, 992), (26, 1052), (27, 1076), (31, 1109), (33, 1121), (38, 1196), (43, 1265), (44, 1277), (45, 1280), (48, 1301), (50, 1310), (51, 1334), (52, 1337), (53, 1355), (55, 1370), (58, 1388), (60, 1406), (65, 1592), (66, 1604), (68, 1616), (69, 1673), (76, 1853), (79, 1904), (81, 1943), (82, 1952), (83, 1997),

Gene: Phreeze_2 Start: 355, Stop: 1668, Start Num: 2
Candidate Starts for Phreeze_2:
(Start: 2 @355 has 9 MA's), (10, 505), (12, 535), (14, 547), (16, 589), (26, 733), (27, 757), (28, 766), (29, 769), (32, 802), (33, 805), (34, 808), (37, 856), (39, 925), (40, 928), (41, 937), (42, 940), (44, 961), (47, 982), (49, 991), (54, 1051), (56, 1057), (62, 1177), (72, 1459), (76, 1531), (84, 1657),

Gene: Predator_3 Start: 690, Stop: 2009, Start Num: 2
Candidate Starts for Predator_3:
(Start: 2 @690 has 9 MA's), (7, 804), (8, 822), (11, 858), (18, 954), (22, 987), (24, 1032), (26, 1068), (33, 1140), (34, 1143), (35, 1158), (37, 1191), (39, 1260), (41, 1272), (42, 1275), (44, 1296), (47, 1317), (48, 1320), (51, 1353), (56, 1392), (70, 1764), (72, 1800), (73, 1836), (74, 1845), (75, 1863), (76, 1872), (84, 1998),

Gene: Puissant_1 Start: 356, Stop: 1669, Start Num: 2
Candidate Starts for Puissant_1:
(Start: 2 @356 has 9 MA's), (12, 536), (13, 542), (14, 548), (24, 698), (27, 758), (32, 803), (33, 806), (37, 857), (39, 926), (40, 929), (41, 938), (42, 941), (44, 962), (47, 983), (49, 992), (54, 1052), (56, 1058), (62, 1178), (72, 1460), (75, 1523), (84, 1658),

Gene: SuperSonics_3 Start: 668, Stop: 2029, Start Num: 4
Candidate Starts for SuperSonics_3:
(1, 650), (Start: 4 @668 has 3 MA's), (5, 677), (9, 800), (11, 827), (14, 851), (17, 920), (19, 938), (23, 992), (26, 1052), (27, 1076), (31, 1109), (33, 1121), (38, 1196), (43, 1265), (44, 1277), (45, 1280), (48, 1301), (50, 1310), (51, 1334), (52, 1337), (53, 1355), (55, 1370), (58, 1388), (60, 1406), (65, 1592), (66, 1604), (68, 1616), (69, 1673), (76, 1853), (79, 1904), (81, 1943), (82, 1952), (83, 1997),

Gene: Thumb_2 Start: 355, Stop: 1668, Start Num: 2
Candidate Starts for Thumb_2:
(Start: 2 @355 has 9 MA's), (10, 505), (12, 535), (14, 547), (16, 589), (26, 733), (27, 757), (28, 766), (29, 769), (32, 802), (33, 805), (34, 808), (37, 856), (39, 925), (40, 928), (41, 937), (42, 940), (44, 961), (47, 982), (49, 991), (54, 1051), (56, 1057), (62, 1177), (72, 1459), (76, 1531), (84, 1657),