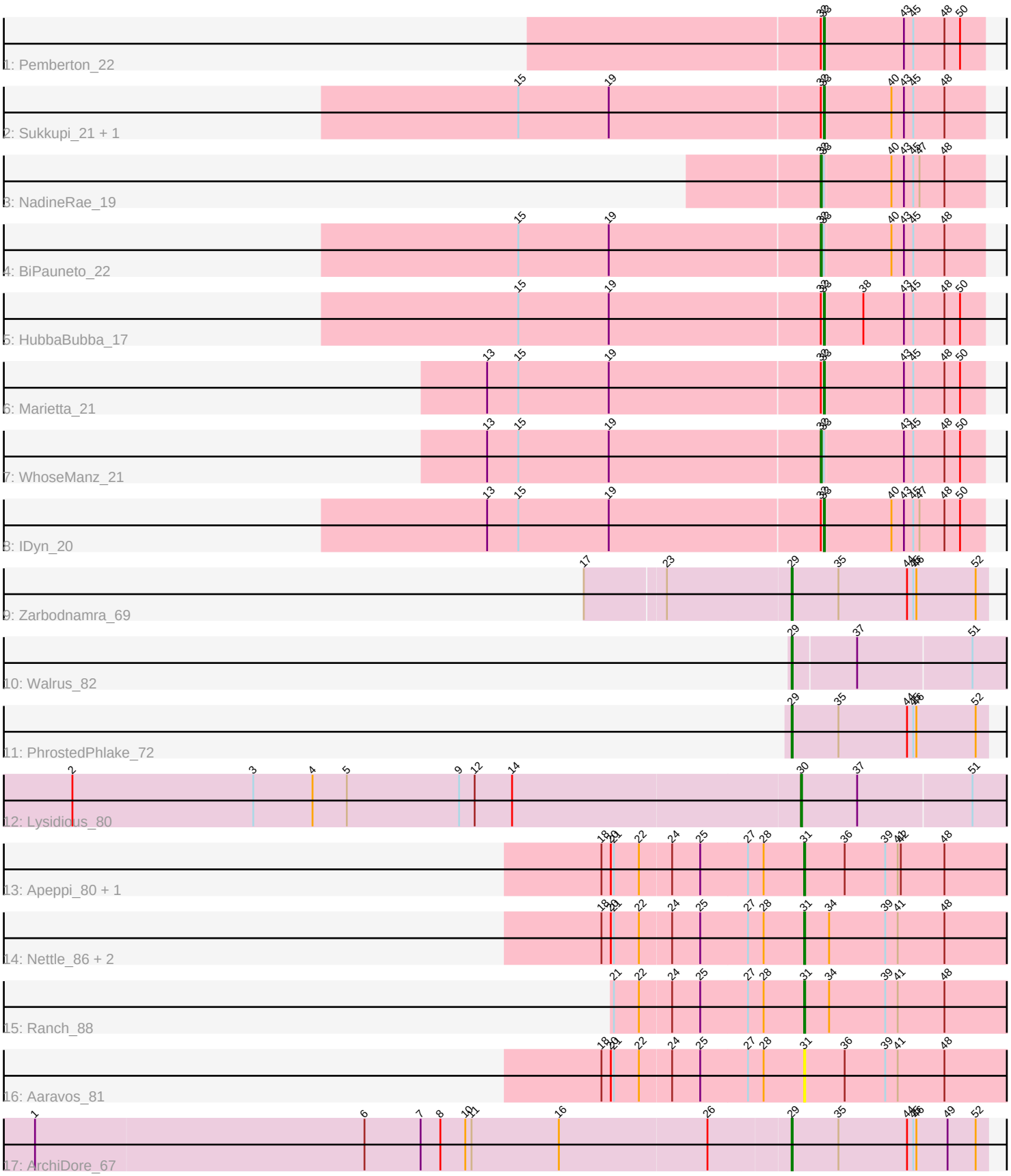
Pham 342558


1: Pemberton_22
2: Sukkupi_21 + 1
3: NadineRae_19
4: BiPauneto_22
5: HubbaBubba_17
6: Marietta_21
7: WhoseManz_21
8: IDyn_20
9: Zarbodnamra_69
10: Walrus_82
11: PhrostedPhlake_72
12: Lysidious_80
13: Apeppi_80 + 1
14: Nettle_86 + 2
15: Ranch_88
16: Aaravos_81
17: ArchiDore_67

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 342558 Report

This analysis was run 11/14/26 on database version 672.

Pham number 342558 has 21 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Pemberton_22
• Track 2 : Sukkupi_21, Yndexa_21
• Track 3 : NadineRae_19
• Track 4 : BiPauneto_22
• Track 5 : HubbaBubba_17
• Track 6 : Marietta_21
• Track 7 : WhoseManz_21
• Track 8 : IDyn_20
• Track 9 : Zarbodnamra_69
• Track 10 : Walrus_82
• Track 11 : PhrostedPhlake_72
• Track 12 : Lysidious_80
• Track 13 : Apeppi_80, LuckyLeo_82
• Track 14 : Nettle_86, Zany_83, Lambo_84
• Track 15 : Ranch_88
• Track 16 : Aaravos_81
• Track 17 : ArchiDore_67

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

The start number called the most often in the published annotations is 33, it was called in 6 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• HubbaBubba_17, IDyn_20, Marietta_21, Pemberton_22, Sukkupi_21, Yndexa_21,

Genes that have the "Most Annotated" start but do not call it:
• BiPauneto_22, NadineRae_19, WhoseManz_21,

Genes that do not have the "Most Annotated" start:
• Aaravos_81, Apeppi_80, ArchiDore_67, Lambo_84, LuckyLeo_82, Lysidious_80, Nettle_86, PhrostedPhlake_72, Ranch_88, Walrus_82, Zany_83, Zarbodnamra_69,

Summary by start number:

Start 29:
• Found in 4 of 21 (19.0%) of genes in pham
• Manual Annotations of this start: 4 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArchiDore_67 (DW), PhrostedPhlake_72 (CV), Walrus_82 (CV), Zarbodnamra_69 (CV),

Start 30:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lysidious_80 (CV),

Start 31:
• Found in 7 of 21 (33.3%) of genes in pham
• Manual Annotations of this start: 5 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aaravos_81 (DV), Apeppi_80 (DV), Lambo_84 (DV), LuckyLeo_82 (DV), Nettle_86 (DV), Ranch_88 (DV), Zany_83 (DV),

Start 32:
• Found in 9 of 21 (42.9%) of genes in pham
• Manual Annotations of this start: 3 of 19
• Called 33.3% of time when present
• Phage (with cluster) where this start called: BiPauneto_22 (CR4), NadineRae_19 (CR4), WhoseManz_21 (CR4),

Start 33:
• Found in 9 of 21 (42.9%) of genes in pham
• Manual Annotations of this start: 6 of 19
• Called 66.7% of time when present
• Phage (with cluster) where this start called: HubbaBubba_17 (CR4), IDyn_20 (CR4), Marietta_21 (CR4), Pemberton_22 (CR4), Sukkupi_21 (CR4), Yndexa_21 (CR4),

Summary by clusters:

There are 4 clusters represented in this pham: DV, DW, CV, CR4,

Info for manual annotations of cluster CR4:
•Start number 32 was manually annotated 3 times for cluster CR4.
•Start number 33 was manually annotated 6 times for cluster CR4.

Info for manual annotations of cluster CV:
•Start number 29 was manually annotated 3 times for cluster CV.
•Start number 30 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster DV:
•Start number 31 was manually annotated 5 times for cluster DV.

Info for manual annotations of cluster DW:
•Start number 29 was manually annotated 1 time for cluster DW.

Gene Information:

Gene: Aaravos_81 Start: 57706, Stop: 57909, Start Num: 31
Candidate Starts for Aaravos_81:
(18, 57514), (20, 57523), (21, 57526), (22, 57550), (24, 57580), (25, 57607), (27, 57652), (28, 57667), (Start: 31 @57706 has 5 MA's), (36, 57745), (39, 57784), (41, 57796), (48, 57841),

Gene: Apeppi_80 Start: 57600, Stop: 57803, Start Num: 31
Candidate Starts for Apeppi_80:
(18, 57408), (20, 57417), (21, 57420), (22, 57444), (24, 57474), (25, 57501), (27, 57546), (28, 57561), (Start: 31 @57600 has 5 MA's), (36, 57639), (39, 57678), (41, 57690), (42, 57693), (48, 57735),

Gene: ArchiDore_67 Start: 47409, Stop: 47597, Start Num: 29
Candidate Starts for ArchiDore_67:
(1, 46692), (6, 47007), (7, 47061), (8, 47079), (10, 47103), (11, 47109), (16, 47193), (26, 47334), (Start: 29 @47409 has 4 MA's), (35, 47454), (44, 47520), (45, 47526), (46, 47529), (49, 47559), (52, 47586),

Gene: BiPauneto_22 Start: 9041, Stop: 9196, Start Num: 32
Candidate Starts for BiPauneto_22:
(15, 8753), (19, 8840), (Start: 32 @9041 has 3 MA's), (Start: 33 @9044 has 6 MA's), (40, 9107), (43, 9119), (45, 9128), (48, 9158),

Gene: HubbaBubba_17 Start: 7570, Stop: 7722, Start Num: 33
Candidate Starts for HubbaBubba_17:
(15, 7279), (19, 7366), (Start: 32 @7567 has 3 MA's), (Start: 33 @7570 has 6 MA's), (38, 7606), (43, 7645), (45, 7654), (48, 7684), (50, 7699),

Gene: IDyn_20 Start: 8961, Stop: 9113, Start Num: 33
Candidate Starts for IDyn_20:
(13, 8640), (15, 8670), (19, 8757), (Start: 32 @8958 has 3 MA's), (Start: 33 @8961 has 6 MA's), (40, 9024), (43, 9036), (45, 9045), (47, 9051), (48, 9075), (50, 9090),

Gene: Lambo_84 Start: 57942, Stop: 58145, Start Num: 31
Candidate Starts for Lambo_84:
(18, 57750), (20, 57759), (21, 57762), (22, 57786), (24, 57816), (25, 57843), (27, 57888), (28, 57903), (Start: 31 @57942 has 5 MA's), (34, 57966), (39, 58020), (41, 58032), (48, 58077),

Gene: LuckyLeo_82 Start: 57600, Stop: 57803, Start Num: 31
Candidate Starts for LuckyLeo_82:
(18, 57408), (20, 57417), (21, 57420), (22, 57444), (24, 57474), (25, 57501), (27, 57546), (28, 57561), (Start: 31 @57600 has 5 MA's), (36, 57639), (39, 57678), (41, 57690), (42, 57693), (48, 57735),

Gene: Lysidious_80 Start: 49101, Stop: 49298, Start Num: 30
Candidate Starts for Lysidious_80:
(2, 48405), (3, 48579), (4, 48636), (5, 48669), (9, 48777), (12, 48792), (14, 48828), (Start: 30 @49101 has 1 MA's), (37, 49155), (51, 49263),

Gene: Marietta_21 Start: 8887, Stop: 9039, Start Num: 33
Candidate Starts for Marietta_21:

(13, 8566), (15, 8596), (19, 8683), (Start: 32 @8884 has 3 MA's), (Start: 33 @8887 has 6 MA's), (43, 8962), (45, 8971), (48, 9001), (50, 9016),

Gene: NadineRae_19 Start: 8134, Stop: 8289, Start Num: 32
Candidate Starts for NadineRae_19:
(Start: 32 @8134 has 3 MA's), (Start: 33 @8137 has 6 MA's), (40, 8200), (43, 8212), (45, 8221), (47, 8227), (48, 8251),

Gene: Nettle_86 Start: 58515, Stop: 58718, Start Num: 31
Candidate Starts for Nettle_86:
(18, 58323), (20, 58332), (21, 58335), (22, 58359), (24, 58389), (25, 58416), (27, 58461), (28, 58476), (Start: 31 @58515 has 5 MA's), (34, 58539), (39, 58593), (41, 58605), (48, 58650),

Gene: Pemberton_22 Start: 8855, Stop: 9007, Start Num: 33
Candidate Starts for Pemberton_22:
(Start: 32 @8852 has 3 MA's), (Start: 33 @8855 has 6 MA's), (43, 8930), (45, 8939), (48, 8969), (50, 8984),

Gene: PhrostedPhlake_72 Start: 44050, Stop: 44238, Start Num: 29
Candidate Starts for PhrostedPhlake_72:
(Start: 29 @44050 has 4 MA's), (35, 44095), (44, 44161), (45, 44167), (46, 44170), (52, 44227),

Gene: Ranch_88 Start: 57625, Stop: 57828, Start Num: 31
Candidate Starts for Ranch_88:
(21, 57445), (22, 57469), (24, 57499), (25, 57526), (27, 57571), (28, 57586), (Start: 31 @57625 has 5 MA's), (34, 57649), (39, 57703), (41, 57715), (48, 57760),

Gene: Sukkupi_21 Start: 8935, Stop: 9087, Start Num: 33
Candidate Starts for Sukkupi_21:
(15, 8644), (19, 8731), (Start: 32 @8932 has 3 MA's), (Start: 33 @8935 has 6 MA's), (40, 8998), (43, 9010), (45, 9019), (48, 9049),

Gene: Walrus_82 Start: 50946, Stop: 51149, Start Num: 29
Candidate Starts for Walrus_82:
(Start: 29 @50946 has 4 MA's), (37, 51006), (51, 51114),

Gene: WhoseManz_21 Start: 8495, Stop: 8650, Start Num: 32
Candidate Starts for WhoseManz_21:
(13, 8177), (15, 8207), (19, 8294), (Start: 32 @8495 has 3 MA's), (Start: 33 @8498 has 6 MA's), (43, 8573), (45, 8582), (48, 8612), (50, 8627),

Gene: Yndexa_21 Start: 8935, Stop: 9087, Start Num: 33
Candidate Starts for Yndexa_21:
(15, 8644), (19, 8731), (Start: 32 @8932 has 3 MA's), (Start: 33 @8935 has 6 MA's), (40, 8998), (43, 9010), (45, 9019), (48, 9049),

Gene: Zany_83 Start: 58715, Stop: 58918, Start Num: 31
Candidate Starts for Zany_83:
(18, 58523), (20, 58532), (21, 58535), (22, 58559), (24, 58589), (25, 58616), (27, 58661), (28, 58676), (Start: 31 @58715 has 5 MA's), (34, 58739), (39, 58793), (41, 58805), (48, 58850),

Gene: Zarbodnamra_69 Start: 42743, Stop: 42931, Start Num: 29
Candidate Starts for Zarbodnamra_69:

(17, 42551), (23, 42626), (Start: 29 @42743 has 4 MA's), (35, 42788), (44, 42854), (45, 42860), (46, 42863), (52, 42920),