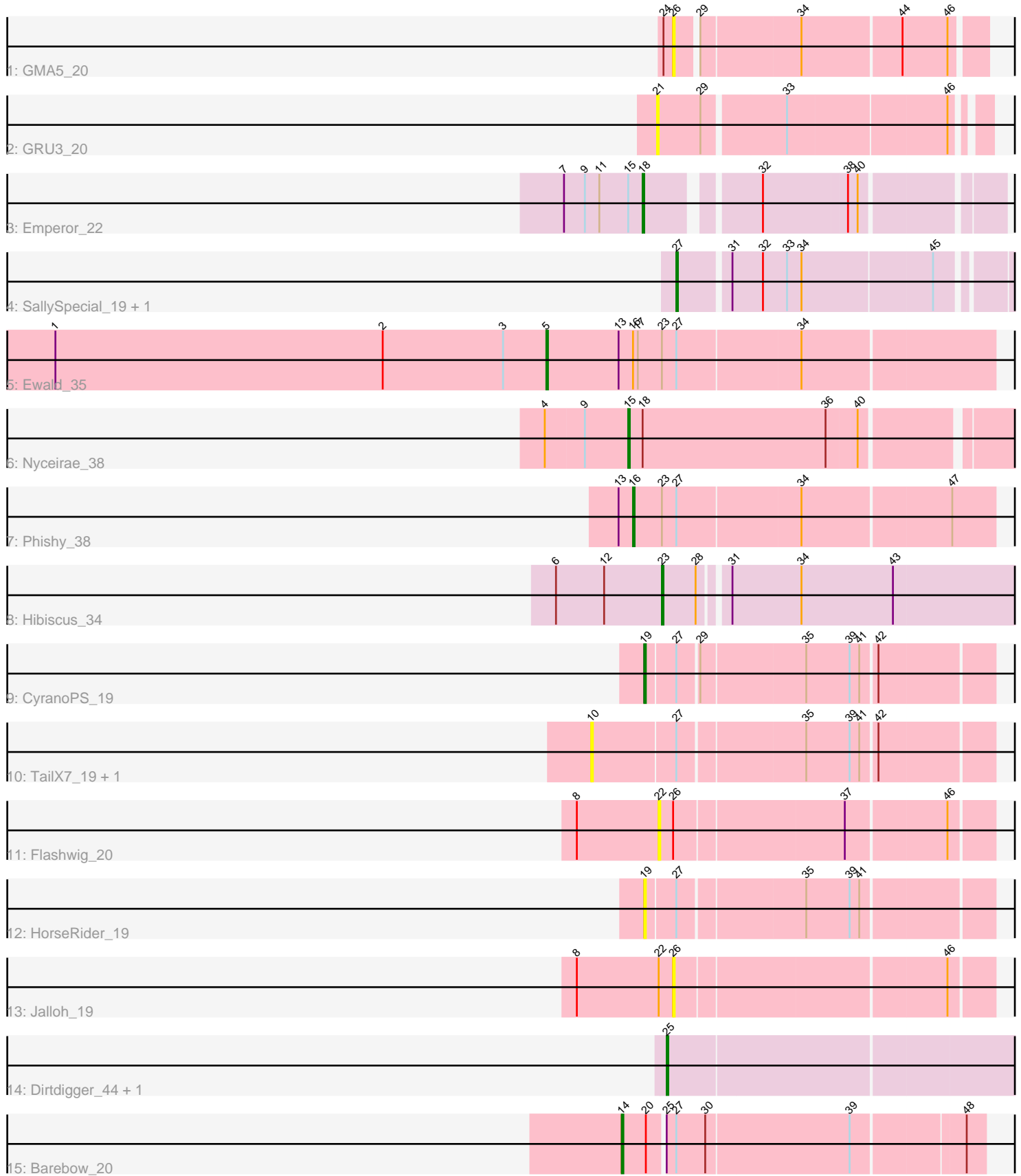# Pham 280942

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 280942 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280942 has 18 members, 9 are drafts.

Phages represented in each track:
• Track 1 : GMA5_20
• Track 2 : GRU3_20
• Track 3 : Emperor_22
• Track 4 : SallySpecial_19, Dirtfootball_22
• Track 5 : Ewald_35
• Track 6 : Nyceirae_38
• Track 7 : Phishy_38
• Track 8 : Hibiscus_34
• Track 9 : CyranoPS_19
• Track 10 : TailX7_19, CarefulCloud_19
• Track 11 : Flashwig_20
• Track 12 : HorseRider_19
• Track 13 : Jalloh_19
• Track 14 : Dirtdigger_44, Gusanita_41
• Track 15 : Barebow_20

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 1 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ewald_35,

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

Genes that do not have the "Most Annotated" start:
• Barebow_20, CarefulCloud_19, CyranoPS_19, Dirtdigger_44, Dirtfootball_22, Emperor_22, Flashwig_20, GMA5_20, GRU3_20, Gusanita_41, Hibiscus_34, HorseRider_19, Jalloh_19, Nyceirae_38, Phishy_38, SallySpecial_19, TailX7_19,

Summary by start number:

Start 5:
• Found in 1 of 18 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ewald_35 (DT),

Start 10:
• Found in 2 of 18 (11.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CarefulCloud_19 (ER), TailX7_19 (ER),

Start 14:
• Found in 1 of 18 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Barebow_20 (singleton),

Start 15:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Nyceirae_38 (DT),

Start 16:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Phishy_38 (DT),

Start 18:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Emperor_22 (DM),

Start 19:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CyranoPS_19 (ER), HorseRider_19 (ER),

Start 21:
• Found in 1 of 18 (5.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GRU3_20 (CW2),

Start 22:
• Found in 2 of 18 (11.1%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present

• Phage (with cluster) where this start called: Flashwig_20 (ER),

Start 23:
• Found in 3 of 18 (16.7%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Hibiscus_34 (DY),

Start 25:
• Found in 3 of 18 (16.7%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Dirtdigger_44 (FF), Gusanita_41 (FF),

Start 26:
• Found in 3 of 18 (16.7%) of genes in pham
• No Manual Annotations of this start.
• Called 66.7% of time when present
• Phage (with cluster) where this start called: GMA5_20 (CW2), Jalloh_19 (ER),

Start 27:
• Found in 9 of 18 (50.0%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 22.2% of time when present
• Phage (with cluster) where this start called: Dirtfootball_22 (DM), SallySpecial_19 (DM),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, DM, CW2, FF, DY, DT, ER,

Info for manual annotations of cluster DM:
•Start number 18 was manually annotated 1 time for cluster DM.
•Start number 27 was manually annotated 1 time for cluster DM.

Info for manual annotations of cluster DT:
•Start number 5 was manually annotated 1 time for cluster DT.
•Start number 15 was manually annotated 1 time for cluster DT.
•Start number 16 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster DY:
•Start number 23 was manually annotated 1 time for cluster DY.

Info for manual annotations of cluster ER:
•Start number 19 was manually annotated 1 time for cluster ER.

Info for manual annotations of cluster FF:
•Start number 25 was manually annotated 1 time for cluster FF.

Gene Information:

Gene: Barebow_20 Start: 15759, Stop: 15971, Start Num: 14
Candidate Starts for Barebow_20:
(Start: 14 @15759 has 1 MA's), (20, 15774), (Start: 25 @15783 has 1 MA's), (Start: 27 @15789 has 1 MA's), (30, 15807), (39, 15894), (48, 15960),

Gene: CarefulCloud_19 Start: 12759, Stop: 12995, Start Num: 10
Candidate Starts for CarefulCloud_19:
(10, 12759), (Start: 27 @12810 has 1 MA's), (35, 12885), (39, 12912), (41, 12918), (42, 12927),

Gene: CyranoPS_19 Start: 12813, Stop: 13016, Start Num: 19
Candidate Starts for CyranoPS_19:
(Start: 19 @12813 has 1 MA's), (Start: 27 @12831 has 1 MA's), (29, 12843), (35, 12906), (39, 12933), (41, 12939), (42, 12948),

Gene: Dirtdigger_44 Start: 30893, Stop: 31102, Start Num: 25
Candidate Starts for Dirtdigger_44:
(Start: 25 @30893 has 1 MA's),

Gene: Dirtfootball_22 Start: 14446, Stop: 14637, Start Num: 27
Candidate Starts for Dirtfootball_22:
(Start: 27 @14446 has 1 MA's), (31, 14476), (32, 14494), (33, 14509), (34, 14518), (45, 14596),

Gene: Emperor_22 Start: 15163, Stop: 15360, Start Num: 18
Candidate Starts for Emperor_22:
(7, 15115), (9, 15127), (11, 15136), (Start: 15 @15154 has 1 MA's), (Start: 18 @15163 has 1 MA's), (32, 15223), (38, 15274), (40, 15280),

Gene: Ewald_35 Start: 29931, Stop: 30203, Start Num: 5
Candidate Starts for Ewald_35:
(1, 29625), (2, 29829), (3, 29904), (Start: 5 @29931 has 1 MA's), (13, 29976), (Start: 16 @29985 has 1 MA's), (17, 29988), (Start: 23 @30003 has 1 MA's), (Start: 27 @30012 has 1 MA's), (34, 30087),

Gene: Flashwig_20 Start: 13383, Stop: 13580, Start Num: 22
Candidate Starts for Flashwig_20:
(8, 13332), (22, 13383), (26, 13392), (37, 13494), (46, 13554),

Gene: GMA5_20 Start: 14712, Stop: 14891, Start Num: 26
Candidate Starts for GMA5_20:
(24, 14706), (26, 14712), (29, 14724), (34, 14784), (44, 14844), (46, 14871),

Gene: GRU3_20 Start: 14761, Stop: 14949, Start Num: 21
Candidate Starts for GRU3_20:
(21, 14761), (29, 14788), (33, 14836), (46, 14932),

Gene: Gusanita_41 Start: 30644, Stop: 30853, Start Num: 25
Candidate Starts for Gusanita_41:
(Start: 25 @30644 has 1 MA's),

Gene: Hibiscus_34 Start: 25548, Stop: 25775, Start Num: 23
Candidate Starts for Hibiscus_34:
(6, 25482), (12, 25512), (Start: 23 @25548 has 1 MA's), (28, 25569), (31, 25584), (34, 25626), (43, 25683),

Gene: HorseRider_19 Start: 12860, Stop: 13063, Start Num: 19
Candidate Starts for HorseRider_19:
(Start: 19 @12860 has 1 MA's), (Start: 27 @12878 has 1 MA's), (35, 12953), (39, 12980), (41, 12986),

Gene: Jalloh_19 Start: 12648, Stop: 12836, Start Num: 26
Candidate Starts for Jalloh_19:
(8, 12588), (22, 12639), (26, 12648), (46, 12810),

Gene: Nyceirae_38 Start: 30354, Stop: 30581, Start Num: 15
Candidate Starts for Nyceirae_38:
(4, 30303), (9, 30327), (Start: 15 @30354 has 1 MA's), (Start: 18 @30363 has 1 MA's), (36, 30477), (40, 30495),

Gene: Phishy_38 Start: 31603, Stop: 31821, Start Num: 16
Candidate Starts for Phishy_38:
(13, 31594), (Start: 16 @31603 has 1 MA's), (Start: 23 @31621 has 1 MA's), (Start: 27 @31630 has 1 MA's), (34, 31705), (47, 31795),

Gene: SallySpecial_19 Start: 14475, Stop: 14666, Start Num: 27
Candidate Starts for SallySpecial_19:
(Start: 27 @14475 has 1 MA's), (31, 14505), (32, 14523), (33, 14538), (34, 14547), (45, 14625),

Gene: TailX7_19 Start: 12907, Stop: 13143, Start Num: 10
Candidate Starts for TailX7_19:
(10, 12907), (Start: 27 @12958 has 1 MA's), (35, 13033), (39, 13060), (41, 13066), (42, 13075),