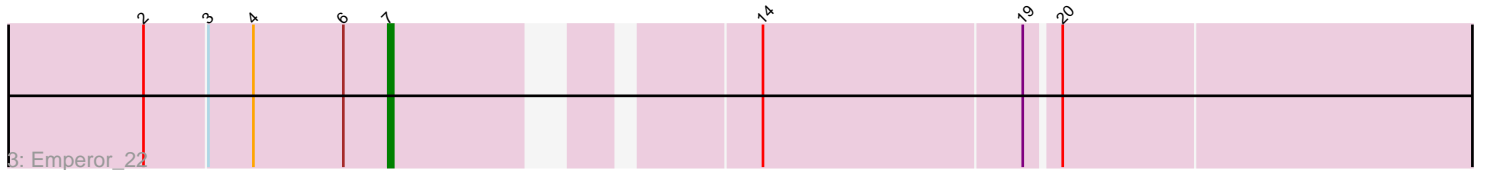
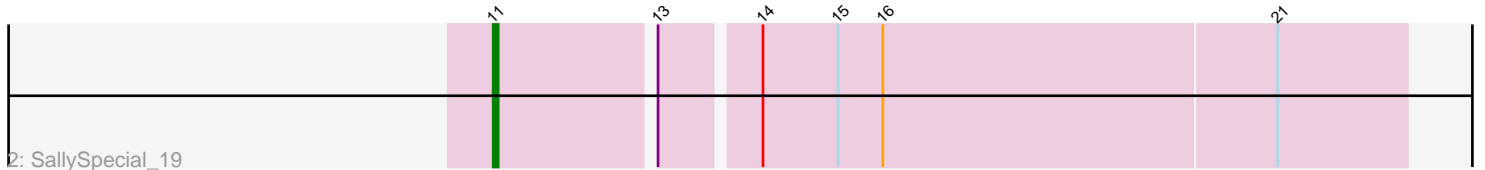
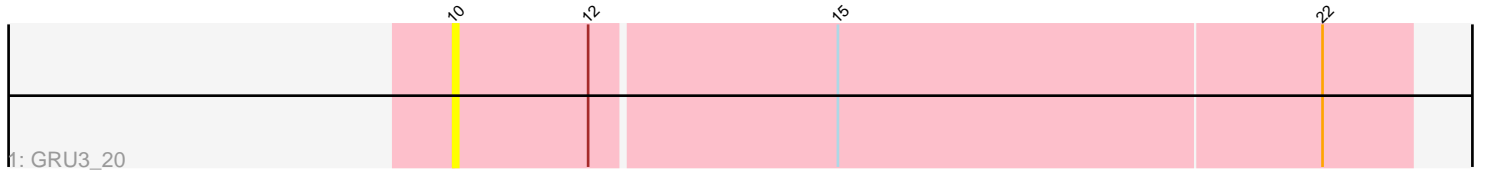


Pham 161934



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 161934 Report

This analysis was run 04/28/24 on database version 559.

Pham number 161934 has 49 members, 5 are drafts.

Phages represented in each track:

- Track 1 : GRU3_20
- Track 2 : SallySpecial_19
- Track 3 : Emperor_22
- Track 4 : Nyceirae_38
- Track 5 : Necropolis_32, Venti_32, Fishburne_32, Willsammy_31, Langerak_32, StevieRay_32, Pygmy_34, Donovan_32, Mangethe_32, Bunnies_32, Thespis_32, Atcoo_32, Zilizebeth_32, Kari_32, Majeke_32, Phegasus_32, FirstPlacePfu_32, Arib1_32, Juniormint_32
- Track 6 : Jebeks_33, Bogie_34, Polkaroo_32, KilKor_32, Brusacoram_32, Dynamo_32, GreaseLightnin_32, Phalm_32, Techage_32, Jung_31, Ksquared_32, Phineas_32, Camster_32, Sonah_32, Malithi_32, HUHilltop_32, CactusJack_32, StressBall_32, Vidya_32, Glaske_32, Bartholomew_31, Shipwreck_34, Megiddo_32
- Track 7 : BigNuz_35
- Track 8 : Nazo_36
- Track 9 : Purky_39

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

The start number called the most often in the published annotations is 8, it was called in 22 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bartholomew_31, Bogie_34, Brusacoram_32, CactusJack_32, Camster_32, Dynamo_32, Glaske_32, GreaseLightnin_32, HUHilltop_32, Jebeks_33, Jung_31, KilKor_32, Ksquared_32, Malithi_32, Megiddo_32, Nazo_36, Phalm_32, Phineas_32, Polkaroo_32, Shipwreck_34, Sonah_32, StressBall_32, Techage_32, Vidya_32,

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

- Arib1_32, Atcoo_32, BigNuz_35, Bunnies_32, Donovan_32, FirstPlacePfu_32, Fishburne_32, Juniormint_32, Kari_32, Langerak_32, Majeke_32, Mangethe_32, Necropolis_32, Phegasus_32, Pygmy_34, StevieRay_32, Thespis_32, Venti_32, Willsammy_31, Zilizebeth_32,

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

- Emperor_22, GRU3_20, Nyceirae_38, Purky_39, SallySpecial_19,

Summary by start number:

Start 6:

- Found in 46 of 49 (93.9%) of genes in pham
- Manual Annotations of this start: 19 of 44
- Called 45.7% of time when present
- Phage (with cluster) where this start called: Arib1_32 (P1), Atcoo_32 (P1), BigNuz_35 (P4), Bunnies_32 (P1), Donovan_32 (P1), FirstPlacePfu_32 (P1), Fishburne_32 (P1), Juniormint_32 (P1), Kari_32 (P1), Langerak_32 (P1), Majeke_32 (P1), Mangethe_32 (P1), Necropolis_32 (P1), Nyceirae_38 (DT), Phegasus_32 (P1), Pygmy_34 (P1), StevieRay_32 (P1), Thespis_32 (P1), Venti_32 (P1), Willsammy_31 (P1), Zilizebeth_32 (P1),

Start 7:

- Found in 2 of 49 (4.1%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Emperor_22 (DM),

Start 8:

- Found in 44 of 49 (89.8%) of genes in pham
- Manual Annotations of this start: 22 of 44
- Called 54.5% of time when present
- Phage (with cluster) where this start called: Bartholomew_31 (P1), Bogie_34 (P1), Brusacoram_32 (P1), CactusJack_32 (P1), Camster_32 (P1), Dynamo_32 (P1), Glaske_32 (P1), GreaseLightnin_32 (P1), HUHilltop_32 (P1), Jebeks_33 (P1), Jung_31 (P1), KilKor_32 (P1), Ksquared_32 (P1), Malithi_32 (P1), Megiddo_32 (P1), Nazo_36 (P4), Phalm_32 (P1), Phineas_32 (P1), Polkaroo_32 (P1), Shipwreck_34 (P1), Sonah_32 (P1), StressBall_32 (P1), Techage_32 (P1), Vidya_32 (P1),

Start 9:

- Found in 1 of 49 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Purky_39 (P6),

Start 10:

- Found in 1 of 49 (2.0%) 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 11:

- Found in 1 of 49 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SallySpecial_19 (DM),

Summary by clusters:

There are 6 clusters represented in this pham: P1, P6, P4, CW2, DM, DT,

Info for manual annotations of cluster DM:

- Start number 7 was manually annotated 1 time for cluster DM.
- Start number 11 was manually annotated 1 time for cluster DM.

Info for manual annotations of cluster DT:

- Start number 6 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster P1:

- Start number 6 was manually annotated 17 times for cluster P1.
- Start number 8 was manually annotated 21 times for cluster P1.

Info for manual annotations of cluster P4:

- Start number 6 was manually annotated 1 time for cluster P4.
- Start number 8 was manually annotated 1 time for cluster P4.

Info for manual annotations of cluster P6:

- Start number 9 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: Arib1_32 Start: 27470, Stop: 27715, Start Num: 6

Candidate Starts for Arib1_32:

(4, 27452), (Start: 6 @27470 has 19 MA's), (Start: 8 @27482 has 22 MA's),

Gene: Atcoo_32 Start: 27951, Stop: 28196, Start Num: 6

Candidate Starts for Atcoo_32:

(4, 27933), (Start: 6 @27951 has 19 MA's), (Start: 8 @27963 has 22 MA's),

Gene: Bartholomew_31 Start: 27476, Stop: 27709, Start Num: 8

Candidate Starts for Bartholomew_31:

(4, 27446), (Start: 6 @27464 has 19 MA's), (Start: 8 @27476 has 22 MA's),

Gene: BigNuz_35 Start: 29592, Stop: 29837, Start Num: 6

Candidate Starts for BigNuz_35:

(4, 29574), (5, 29586), (Start: 6 @29592 has 19 MA's), (Start: 8 @29604 has 22 MA's),

Gene: Bogie_34 Start: 29259, Stop: 29492, Start Num: 8

Candidate Starts for Bogie_34:

(4, 29229), (Start: 6 @29247 has 19 MA's), (Start: 8 @29259 has 22 MA's),

Gene: Brusacoram_32 Start: 27469, Stop: 27702, Start Num: 8

Candidate Starts for Brusacoram_32:

(4, 27439), (Start: 6 @27457 has 19 MA's), (Start: 8 @27469 has 22 MA's),

Gene: Bunnies_32 Start: 27478, Stop: 27723, Start Num: 6

Candidate Starts for Bunnies_32:

(4, 27460), (Start: 6 @27478 has 19 MA's), (Start: 8 @27490 has 22 MA's),

Gene: CactusJack_32 Start: 27733, Stop: 27966, Start Num: 8

Candidate Starts for CactusJack_32:
(4, 27703), (Start: 6 @27721 has 19 MA's), (Start: 8 @27733 has 22 MA's),

Gene: Camster_32 Start: 27506, Stop: 27739, Start Num: 8
Candidate Starts for Camster_32:
(4, 27476), (Start: 6 @27494 has 19 MA's), (Start: 8 @27506 has 22 MA's),

Gene: Donovan_32 Start: 27486, Stop: 27731, Start Num: 6
Candidate Starts for Donovan_32:
(4, 27468), (Start: 6 @27486 has 19 MA's), (Start: 8 @27498 has 22 MA's),

Gene: Dynamo_32 Start: 27887, Stop: 28120, Start Num: 8
Candidate Starts for Dynamo_32:
(4, 27857), (Start: 6 @27875 has 19 MA's), (Start: 8 @27887 has 22 MA's),

Gene: Emperor_22 Start: 15163, Stop: 15360, Start Num: 7
Candidate Starts for Emperor_22:
(2, 15115), (3, 15127), (4, 15136), (Start: 6 @15154 has 19 MA's), (Start: 7 @15163 has 1 MA's), (14, 15223), (19, 15274), (20, 15280),

Gene: FirstPlacePfu_32 Start: 27496, Stop: 27741, Start Num: 6
Candidate Starts for FirstPlacePfu_32:
(4, 27478), (Start: 6 @27496 has 19 MA's), (Start: 8 @27508 has 22 MA's),

Gene: Fishburne_32 Start: 27464, Stop: 27709, Start Num: 6
Candidate Starts for Fishburne_32:
(4, 27446), (Start: 6 @27464 has 19 MA's), (Start: 8 @27476 has 22 MA's),

Gene: GRU3_20 Start: 14761, Stop: 14949, Start Num: 10
Candidate Starts for GRU3_20:
(10, 14761), (12, 14788), (15, 14836), (22, 14932),

Gene: Glaske_32 Start: 27733, Stop: 27966, Start Num: 8
Candidate Starts for Glaske_32:
(4, 27703), (Start: 6 @27721 has 19 MA's), (Start: 8 @27733 has 22 MA's),

Gene: GreaseLightnin_32 Start: 27725, Stop: 27958, Start Num: 8
Candidate Starts for GreaseLightnin_32:
(4, 27695), (Start: 6 @27713 has 19 MA's), (Start: 8 @27725 has 22 MA's),

Gene: HUHilltop_32 Start: 27509, Stop: 27742, Start Num: 8
Candidate Starts for HUHilltop_32:
(4, 27479), (Start: 6 @27497 has 19 MA's), (Start: 8 @27509 has 22 MA's),

Gene: Jebeks_33 Start: 27461, Stop: 27694, Start Num: 8
Candidate Starts for Jebeks_33:
(4, 27431), (Start: 6 @27449 has 19 MA's), (Start: 8 @27461 has 22 MA's),

Gene: Jung_31 Start: 27440, Stop: 27673, Start Num: 8
Candidate Starts for Jung_31:
(4, 27410), (Start: 6 @27428 has 19 MA's), (Start: 8 @27440 has 22 MA's),

Gene: Juniormint_32 Start: 27500, Stop: 27745, Start Num: 6

Candidate Starts for Juniormint_32:

(4, 27482), (Start: 6 @27500 has 19 MA's), (Start: 8 @27512 has 22 MA's),

Gene: Kari_32 Start: 27461, Stop: 27706, Start Num: 6

Candidate Starts for Kari_32:

(4, 27443), (Start: 6 @27461 has 19 MA's), (Start: 8 @27473 has 22 MA's),

Gene: KilKor_32 Start: 27733, Stop: 27966, Start Num: 8

Candidate Starts for KilKor_32:

(4, 27703), (Start: 6 @27721 has 19 MA's), (Start: 8 @27733 has 22 MA's),

Gene: Ksquared_32 Start: 27490, Stop: 27723, Start Num: 8

Candidate Starts for Ksquared_32:

(4, 27460), (Start: 6 @27478 has 19 MA's), (Start: 8 @27490 has 22 MA's),

Gene: Langerak_32 Start: 27480, Stop: 27725, Start Num: 6

Candidate Starts for Langerak_32:

(4, 27462), (Start: 6 @27480 has 19 MA's), (Start: 8 @27492 has 22 MA's),

Gene: Majeke_32 Start: 27502, Stop: 27747, Start Num: 6

Candidate Starts for Majeke_32:

(4, 27484), (Start: 6 @27502 has 19 MA's), (Start: 8 @27514 has 22 MA's),

Gene: Malithi_32 Start: 27399, Stop: 27632, Start Num: 8

Candidate Starts for Malithi_32:

(4, 27369), (Start: 6 @27387 has 19 MA's), (Start: 8 @27399 has 22 MA's),

Gene: Mangethe_32 Start: 27502, Stop: 27747, Start Num: 6

Candidate Starts for Mangethe_32:

(4, 27484), (Start: 6 @27502 has 19 MA's), (Start: 8 @27514 has 22 MA's),

Gene: Megiddo_32 Start: 27733, Stop: 27966, Start Num: 8

Candidate Starts for Megiddo_32:

(4, 27703), (Start: 6 @27721 has 19 MA's), (Start: 8 @27733 has 22 MA's),

Gene: Nazo_36 Start: 29606, Stop: 29839, Start Num: 8

Candidate Starts for Nazo_36:

(4, 29576), (5, 29588), (Start: 6 @29594 has 19 MA's), (Start: 8 @29606 has 22 MA's),

Gene: Necropolis_32 Start: 27461, Stop: 27706, Start Num: 6

Candidate Starts for Necropolis_32:

(4, 27443), (Start: 6 @27461 has 19 MA's), (Start: 8 @27473 has 22 MA's),

Gene: Nyceirae_38 Start: 30354, Stop: 30581, Start Num: 6

Candidate Starts for Nyceirae_38:

(1, 30303), (3, 30327), (Start: 6 @30354 has 19 MA's), (Start: 7 @30363 has 1 MA's), (17, 30477),
(20, 30495),

Gene: Phalm_32 Start: 27733, Stop: 27966, Start Num: 8

Candidate Starts for Phalm_32:

(4, 27703), (Start: 6 @27721 has 19 MA's), (Start: 8 @27733 has 22 MA's),

Gene: Phegasus_32 Start: 27469, Stop: 27714, Start Num: 6

Candidate Starts for Phegasus_32:

(4, 27451), (Start: 6 @27469 has 19 MA's), (Start: 8 @27481 has 22 MA's),

Gene: Phineas_32 Start: 27847, Stop: 28080, Start Num: 8

Candidate Starts for Phineas_32:

(4, 27817), (Start: 6 @27835 has 19 MA's), (Start: 8 @27847 has 22 MA's),

Gene: Polkaroo_32 Start: 27490, Stop: 27723, Start Num: 8

Candidate Starts for Polkaroo_32:

(4, 27460), (Start: 6 @27478 has 19 MA's), (Start: 8 @27490 has 22 MA's),

Gene: Purky_39 Start: 30247, Stop: 30462, Start Num: 9

Candidate Starts for Purky_39:

(4, 30217), (Start: 9 @30247 has 1 MA's), (18, 30355),

Gene: Pygmy_34 Start: 29303, Stop: 29548, Start Num: 6

Candidate Starts for Pygmy_34:

(4, 29285), (Start: 6 @29303 has 19 MA's), (Start: 8 @29315 has 22 MA's),

Gene: SallySpecial_19 Start: 14475, Stop: 14666, Start Num: 11

Candidate Starts for SallySpecial_19:

(Start: 11 @14475 has 1 MA's), (13, 14505), (14, 14523), (15, 14538), (16, 14547), (21, 14625),

Gene: Shipwreck_34 Start: 29290, Stop: 29523, Start Num: 8

Candidate Starts for Shipwreck_34:

(4, 29260), (Start: 6 @29278 has 19 MA's), (Start: 8 @29290 has 22 MA's),

Gene: Sonah_32 Start: 27462, Stop: 27695, Start Num: 8

Candidate Starts for Sonah_32:

(4, 27432), (Start: 6 @27450 has 19 MA's), (Start: 8 @27462 has 22 MA's),

Gene: StevieRay_32 Start: 27429, Stop: 27674, Start Num: 6

Candidate Starts for StevieRay_32:

(4, 27411), (Start: 6 @27429 has 19 MA's), (Start: 8 @27441 has 22 MA's),

Gene: StressBall_32 Start: 27733, Stop: 27966, Start Num: 8

Candidate Starts for StressBall_32:

(4, 27703), (Start: 6 @27721 has 19 MA's), (Start: 8 @27733 has 22 MA's),

Gene: Techage_32 Start: 27499, Stop: 27732, Start Num: 8

Candidate Starts for Techage_32:

(4, 27469), (Start: 6 @27487 has 19 MA's), (Start: 8 @27499 has 22 MA's),

Gene: Thespis_32 Start: 27457, Stop: 27702, Start Num: 6

Candidate Starts for Thespis_32:

(4, 27439), (Start: 6 @27457 has 19 MA's), (Start: 8 @27469 has 22 MA's),

Gene: Venti_32 Start: 27464, Stop: 27709, Start Num: 6

Candidate Starts for Venti_32:

(4, 27446), (Start: 6 @27464 has 19 MA's), (Start: 8 @27476 has 22 MA's),

Gene: Vidya_32 Start: 27509, Stop: 27742, Start Num: 8

Candidate Starts for Vidya_32:

(4, 27479), (Start: 6 @27497 has 19 MA's), (Start: 8 @27509 has 22 MA's),

Gene: Willsammy_31 Start: 27204, Stop: 27449, Start Num: 6

Candidate Starts for Willsammy_31:

(4, 27186), (Start: 6 @27204 has 19 MA's), (Start: 8 @27216 has 22 MA's),

Gene: Zilizebeth_32 Start: 27496, Stop: 27741, Start Num: 6

Candidate Starts for Zilizebeth_32:

(4, 27478), (Start: 6 @27496 has 19 MA's), (Start: 8 @27508 has 22 MA's),