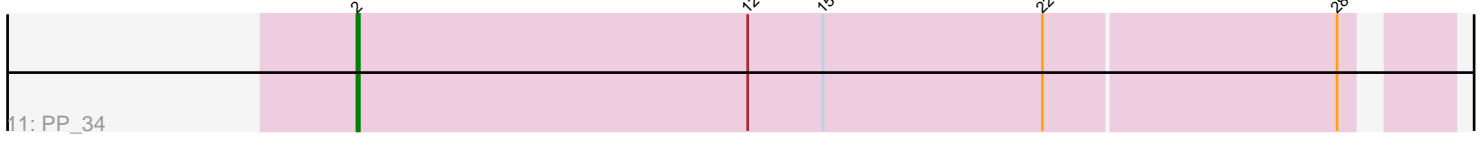
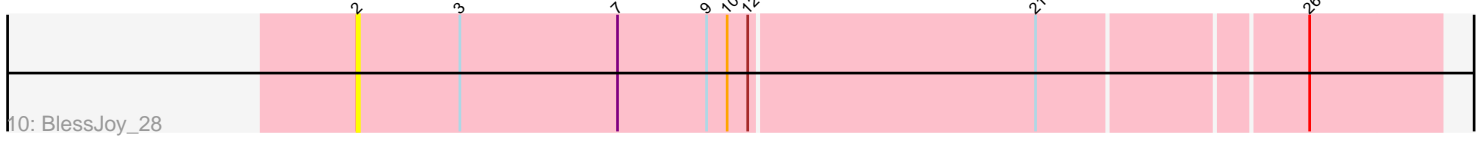
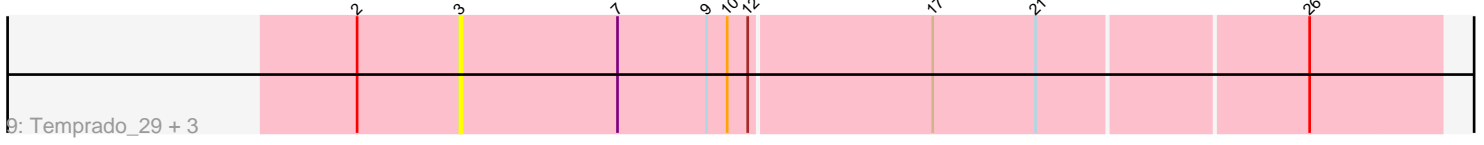
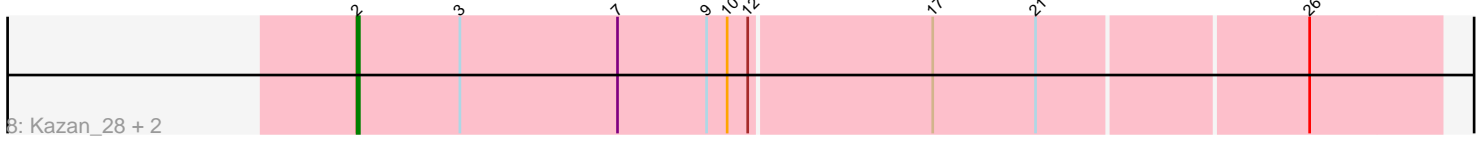
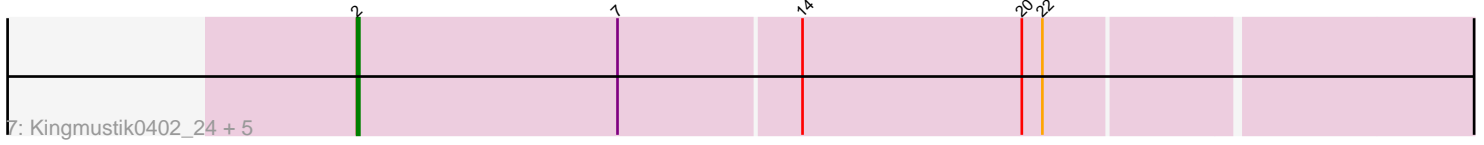
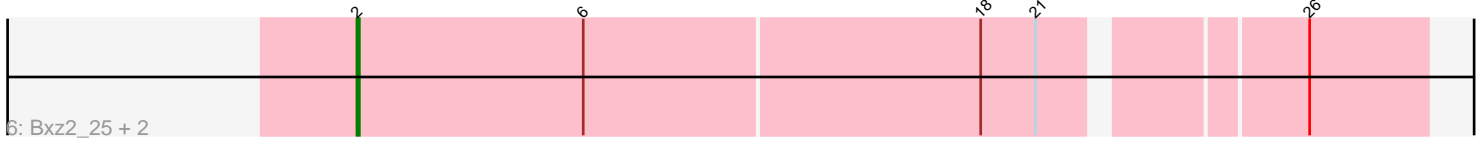
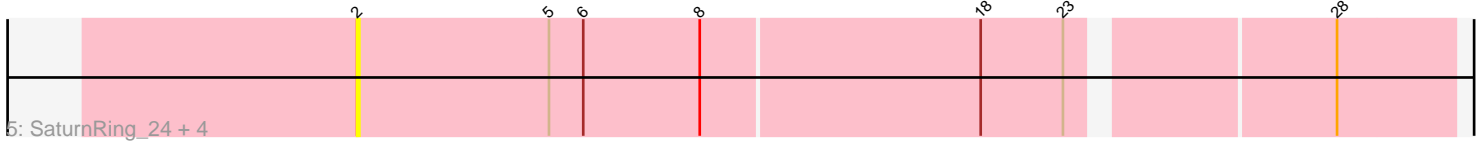
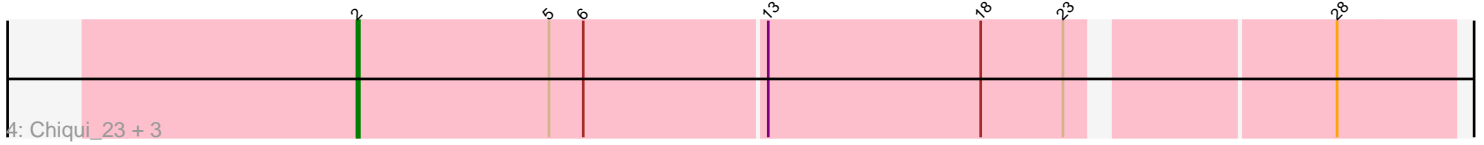
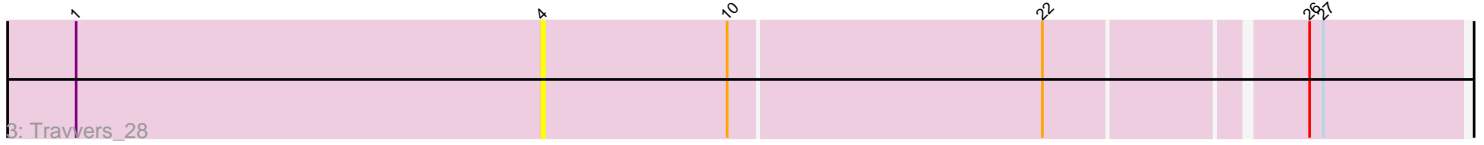
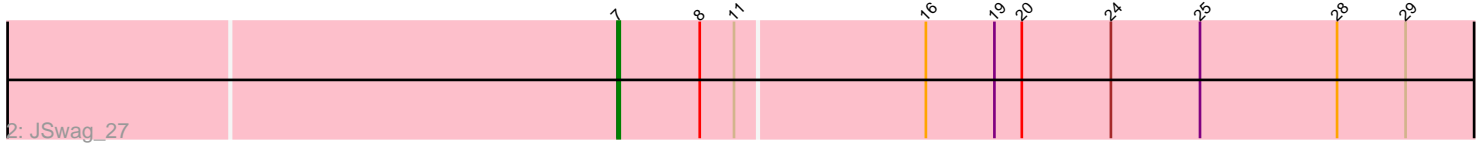
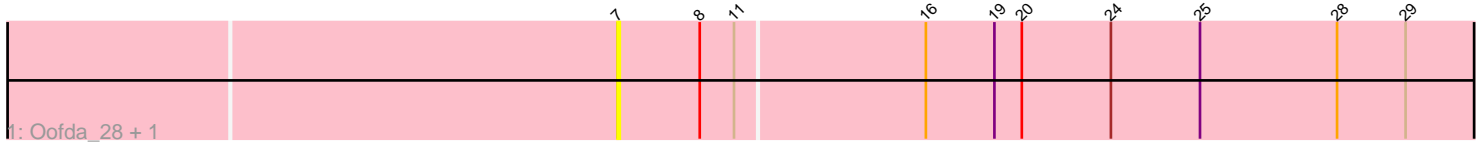


Pham 203186



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 203186 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203186 has 31 members, 21 are drafts.

Phages represented in each track:

- Track 1 : Oofda_28, Warrior24_28
- Track 2 : JSwag_27
- Track 3 : Travvers_28
- Track 4 : Chiqui_23, Kachowdy_24, B1_22, BabyJohn_23
- Track 5 : SaturnRing_24, DropBear_24, Marchesa_24, Bugatti_24, Giroux_24
- Track 6 : Bxz2_25, Calvinny_27, Anubis_28
- Track 7 : Kingmustik0402_24, Koan_23, NorthStar_24, LeoAvram_24, SenorClean_23, Huxley_24
- Track 8 : Kazan_28, Chartreuse_28, DaVinci_28
- Track 9 : Temprado_29, Garak_29, Helmet_29, Candra_28
- Track 10 : BlessJoy_28
- Track 11 : PP_34

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 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anubis_28, B1_22, BabyJohn_23, BlessJoy_28, Bugatti_24, Bxz2_25, Calvinny_27, Chartreuse_28, Chiqui_23, DaVinci_28, DropBear_24, Giroux_24, Huxley_24, Kachowdy_24, Kazan_28, Kingmustik0402_24, Koan_23, LeoAvram_24, Marchesa_24, NorthStar_24, PP_34, SaturnRing_24, SenorClean_23,

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

- Candra_28, Garak_29, Helmet_29, Temprado_29,

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

- JSwag_27, Oofda_28, Travvers_28, Warrior24_28,

Summary by start number:

Start 2:

- Found in 27 of 31 (87.1%) of genes in pham

- Manual Annotations of this start: 9 of 10
- Called 85.2% of time when present
- Phage (with cluster) where this start called: Anubis_28 (A3), B1_22 (A3), BabyJohn_23 (A3), BlessJoy_28 (A6), Bugatti_24 (A3), Bxz2_25 (A3), Calvinny_27 (A3), Chartreuse_28 (A6), Chiqui_23 (A3), DaVinci_28 (A6), DropBear_24 (A3), Giroux_24 (A3), Huxley_24 (A4), Kachowdy_24 (A3), Kazan_28 (A6), Kingmustik0402_24 (A4), Koan_23 (A4), LeoAvram_24 (A4), Marchesa_24 (A3), NorthStar_24 (A4), PP_34 (A7), SaturnRing_24 (A3), SenorClean_23 (A4),

Start 3:

- Found in 8 of 31 (25.8%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Candra_28 (A6), Garak_29 (A6), Helmet_29 (A6), Temprado_29 (A6),

Start 4:

- Found in 1 of 31 (3.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Travvers_28 (A2),

Start 7:

- Found in 17 of 31 (54.8%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 17.6% of time when present
- Phage (with cluster) where this start called: JSwag_27 (A15), Oofda_28 (A15), Warrior24_28 (A15),

Summary by clusters:

There are 6 clusters represented in this pham: A15, A3, A2, A4, A7, A6,

Info for manual annotations of cluster A15:

- Start number 7 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster A3:

- Start number 2 was manually annotated 3 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 2 was manually annotated 3 times for cluster A4.

Info for manual annotations of cluster A6:

- Start number 2 was manually annotated 2 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 2 was manually annotated 1 time for cluster A7.

Gene Information:

Gene: Anubis_28 Start: 15419, Stop: 15865, Start Num: 2

Candidate Starts for Anubis_28:

(Start: 2 @15419 has 9 MA's), (6, 15518), (18, 15689), (21, 15713), (26, 15815),

Gene: B1_22 Start: 14712, Stop: 15173, Start Num: 2

Candidate Starts for B1_22:

(Start: 2 @14712 has 9 MA's), (5, 14796), (6, 14811), (13, 14889), (18, 14982), (23, 15018), (28, 15123),

Gene: BabyJohn_23 Start: 15302, Stop: 15763, Start Num: 2

Candidate Starts for BabyJohn_23:

(Start: 2 @15302 has 9 MA's), (5, 15386), (6, 15401), (13, 15479), (18, 15572), (23, 15608), (28, 15713),

Gene: BlessJoy_28 Start: 16261, Stop: 16722, Start Num: 2

Candidate Starts for BlessJoy_28:

(Start: 2 @16261 has 9 MA's), (3, 16306), (Start: 7 @16375 has 1 MA's), (9, 16414), (10, 16423), (12, 16432), (21, 16555), (26, 16666),

Gene: Bugatti_24 Start: 15033, Stop: 15494, Start Num: 2

Candidate Starts for Bugatti_24:

(Start: 2 @15033 has 9 MA's), (5, 15117), (6, 15132), (8, 15183), (18, 15303), (23, 15339), (28, 15444),

Gene: Bxz2_25 Start: 15627, Stop: 16073, Start Num: 2

Candidate Starts for Bxz2_25:

(Start: 2 @15627 has 9 MA's), (6, 15726), (18, 15897), (21, 15921), (26, 16023),

Gene: Calvinny_27 Start: 15611, Stop: 16057, Start Num: 2

Candidate Starts for Calvinny_27:

(Start: 2 @15611 has 9 MA's), (6, 15710), (18, 15881), (21, 15905), (26, 16007),

Gene: Candra_28 Start: 16359, Stop: 16778, Start Num: 3

Candidate Starts for Candra_28:

(Start: 2 @16314 has 9 MA's), (3, 16359), (Start: 7 @16428 has 1 MA's), (9, 16467), (10, 16476), (12, 16485), (17, 16563), (21, 16608), (26, 16722),

Gene: Chartreuse_28 Start: 16225, Stop: 16689, Start Num: 2

Candidate Starts for Chartreuse_28:

(Start: 2 @16225 has 9 MA's), (3, 16270), (Start: 7 @16339 has 1 MA's), (9, 16378), (10, 16387), (12, 16396), (17, 16474), (21, 16519), (26, 16633),

Gene: Chiqui_23 Start: 15302, Stop: 15763, Start Num: 2

Candidate Starts for Chiqui_23:

(Start: 2 @15302 has 9 MA's), (5, 15386), (6, 15401), (13, 15479), (18, 15572), (23, 15608), (28, 15713),

Gene: DaVinci_28 Start: 16279, Stop: 16743, Start Num: 2

Candidate Starts for DaVinci_28:

(Start: 2 @16279 has 9 MA's), (3, 16324), (Start: 7 @16393 has 1 MA's), (9, 16432), (10, 16441), (12, 16450), (17, 16528), (21, 16573), (26, 16687),

Gene: DropBear_24 Start: 15093, Stop: 15554, Start Num: 2

Candidate Starts for DropBear_24:

(Start: 2 @15093 has 9 MA's), (5, 15177), (6, 15192), (8, 15243), (18, 15363), (23, 15399), (28, 15504),

Gene: Garak_29 Start: 16321, Stop: 16740, Start Num: 3

Candidate Starts for Garak_29:

(Start: 2 @16276 has 9 MA's), (3, 16321), (Start: 7 @16390 has 1 MA's), (9, 16429), (10, 16438), (12, 16447), (17, 16525), (21, 16570), (26, 16684),

Gene: Giroux_24 Start: 15033, Stop: 15494, Start Num: 2

Candidate Starts for Giroux_24:

(Start: 2 @15033 has 9 MA's), (5, 15117), (6, 15132), (8, 15183), (18, 15303), (23, 15339), (28, 15444),

Gene: Helmet_29 Start: 16321, Stop: 16740, Start Num: 3

Candidate Starts for Helmet_29:

(Start: 2 @16276 has 9 MA's), (3, 16321), (Start: 7 @16390 has 1 MA's), (9, 16429), (10, 16438), (12, 16447), (17, 16525), (21, 16570), (26, 16684),

Gene: Huxley_24 Start: 15485, Stop: 16030, Start Num: 2

Candidate Starts for Huxley_24:

(Start: 2 @15485 has 9 MA's), (Start: 7 @15599 has 1 MA's), (14, 15677), (20, 15773), (22, 15782),

Gene: JSwag_27 Start: 15383, Stop: 15838, Start Num: 7

Candidate Starts for JSwag_27:

(Start: 7 @15383 has 1 MA's), (8, 15419), (11, 15434), (16, 15515), (19, 15545), (20, 15557), (24, 15596), (25, 15635), (28, 15695), (29, 15725),

Gene: Kachowdy_24 Start: 15086, Stop: 15547, Start Num: 2

Candidate Starts for Kachowdy_24:

(Start: 2 @15086 has 9 MA's), (5, 15170), (6, 15185), (13, 15263), (18, 15356), (23, 15392), (28, 15497),

Gene: Kazan_28 Start: 16284, Stop: 16748, Start Num: 2

Candidate Starts for Kazan_28:

(Start: 2 @16284 has 9 MA's), (3, 16329), (Start: 7 @16398 has 1 MA's), (9, 16437), (10, 16446), (12, 16455), (17, 16533), (21, 16578), (26, 16692),

Gene: Kingmustik0402_24 Start: 15413, Stop: 15958, Start Num: 2

Candidate Starts for Kingmustik0402_24:

(Start: 2 @15413 has 9 MA's), (Start: 7 @15527 has 1 MA's), (14, 15605), (20, 15701), (22, 15710),

Gene: Koan_23 Start: 15421, Stop: 15966, Start Num: 2

Candidate Starts for Koan_23:

(Start: 2 @15421 has 9 MA's), (Start: 7 @15535 has 1 MA's), (14, 15613), (20, 15709), (22, 15718),

Gene: LeoAvram_24 Start: 15418, Stop: 15963, Start Num: 2

Candidate Starts for LeoAvram_24:

(Start: 2 @15418 has 9 MA's), (Start: 7 @15532 has 1 MA's), (14, 15610), (20, 15706), (22, 15715),

Gene: Marchesa_24 Start: 15084, Stop: 15545, Start Num: 2

Candidate Starts for Marchesa_24:

(Start: 2 @15084 has 9 MA's), (5, 15168), (6, 15183), (8, 15234), (18, 15354), (23, 15390), (28, 15495),

Gene: NorthStar_24 Start: 15421, Stop: 15966, Start Num: 2

Candidate Starts for NorthStar_24:

(Start: 2 @15421 has 9 MA's), (Start: 7 @15535 has 1 MA's), (14, 15613), (20, 15709), (22, 15718),

Gene: Oofda_28 Start: 15368, Stop: 15823, Start Num: 7

Candidate Starts for Oofda_28:

(Start: 7 @15368 has 1 MA's), (8, 15404), (11, 15419), (16, 15500), (19, 15530), (20, 15542), (24, 15581), (25, 15620), (28, 15680), (29, 15710),

Gene: PP_34 Start: 21309, Stop: 21773, Start Num: 2

Candidate Starts for PP_34:

(Start: 2 @21309 has 9 MA's), (12, 21480), (15, 21513), (22, 21609), (28, 21735),

Gene: SaturnRing_24 Start: 15033, Stop: 15494, Start Num: 2

Candidate Starts for SaturnRing_24:

(Start: 2 @15033 has 9 MA's), (5, 15117), (6, 15132), (8, 15183), (18, 15303), (23, 15339), (28, 15444),

Gene: SenorClean_23 Start: 15421, Stop: 15966, Start Num: 2

Candidate Starts for SenorClean_23:

(Start: 2 @15421 has 9 MA's), (Start: 7 @15535 has 1 MA's), (14, 15613), (20, 15709), (22, 15718),

Gene: Temprado_29 Start: 16321, Stop: 16740, Start Num: 3

Candidate Starts for Temprado_29:

(Start: 2 @16276 has 9 MA's), (3, 16321), (Start: 7 @16390 has 1 MA's), (9, 16429), (10, 16438), (12, 16447), (17, 16525), (21, 16570), (26, 16684),

Gene: Travvers_28 Start: 16132, Stop: 16518, Start Num: 4

Candidate Starts for Travvers_28:

(1, 15928), (4, 16132), (10, 16213), (22, 16348), (26, 16453), (27, 16459),

Gene: Warrior24_28 Start: 15368, Stop: 15823, Start Num: 7

Candidate Starts for Warrior24_28:

(Start: 7 @15368 has 1 MA's), (8, 15404), (11, 15419), (16, 15500), (19, 15530), (20, 15542), (24, 15581), (25, 15620), (28, 15680), (29, 15710),