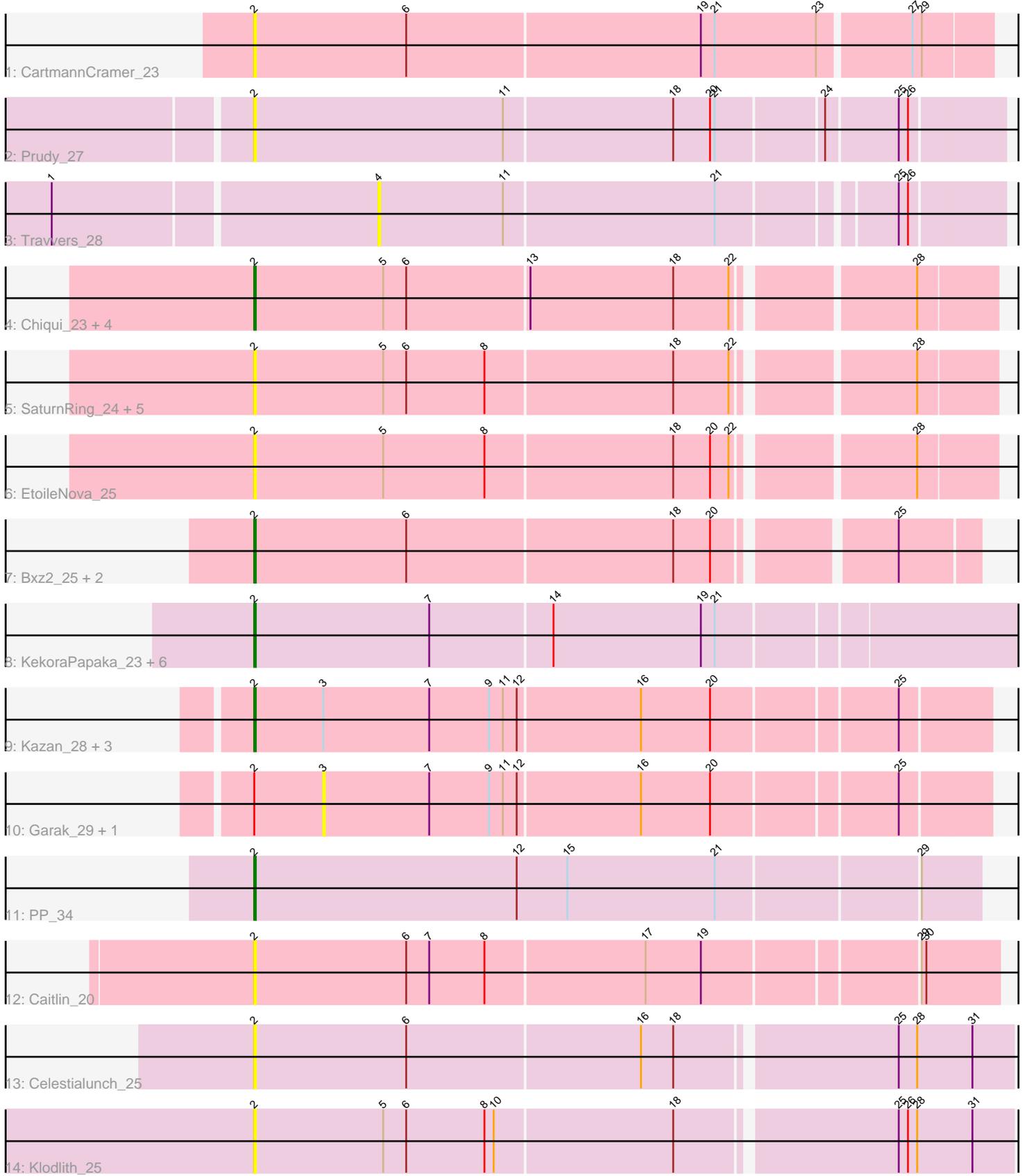


Pham 291357



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 291357 Report

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

Pham number 291357 has 35 members, 26 are drafts.

Phages represented in each track:

- Track 1 : CartmannCramer_23
- Track 2 : Prudy_27
- Track 3 : Travvers_28
- Track 4 : Chiqui_23, B1_22, Roimos_24, Kachowdy_24, BabyJohn_23
- Track 5 : SaturnRing_24, DropBear_24, Marchesa_24, Clammy_24, Zarafa_24, Bugatti_24
- Track 6 : EtoileNova_25
- Track 7 : Bxz2_25, Calvinny_27, Anubis_28
- Track 8 : KekoraPapaka_23, Kingmustik0402_24, NorthStar_24, LeoAvram_24, SteMason_23, RockieBear_23, Huxley_24
- Track 9 : Kazan_28, BennyP_28, DelvinSonDorr_27, DaVinci_28
- Track 10 : Garak_29, Candra_28
- Track 11 : PP_34
- Track 12 : Caitlin_20
- Track 13 : Celestiallunch_25
- Track 14 : Klodlith_25

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 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anubis_28, B1_22, BabyJohn_23, BennyP_28, Bugatti_24, Bxz2_25, Caitlin_20, Calvinny_27, CartmannCramer_23, Celestiallunch_25, Chiqui_23, Clammy_24, DaVinci_28, DelvinSonDorr_27, DropBear_24, EtoileNova_25, Huxley_24, Kachowdy_24, Kazan_28, KekoraPapaka_23, Kingmustik0402_24, Klodlith_25, LeoAvram_24, Marchesa_24, NorthStar_24, PP_34, Prudy_27, RockieBear_23, Roimos_24, SaturnRing_24, SteMason_23, Zarafa_24,

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

- Candra_28, Garak_29,

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

- Travvers_28,

Summary by start number:

Start 2:

- Found in 34 of 35 (97.1%) of genes in pham
- Manual Annotations of this start: 9 of 9
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Anubis_28 (A3), B1_22 (A3), BabyJohn_23 (A3), BennyP_28 (A6), Bugatti_24 (A3), Bxz2_25 (A3), Caitlin_20 (A8), Calvinny_27 (A3), CartmannCramer_23 (A1), Celestialunch_25 (A9), Chiqui_23 (A3), Clammy_24 (A3), DaVinci_28 (A6), DelvinSonDorr_27 (A6), DropBear_24 (A3), EtoileNova_25 (A3), Huxley_24 (A4), Kachowdy_24 (A3), Kazan_28 (A6), KekoraPapaka_23 (A4), Kingmustik0402_24 (A4), Klodlith_25 (A9), LeoAvram_24 (A4), Marchesa_24 (A3), NorthStar_24 (A4), PP_34 (A7), Prudy_27 (A2), RockieBear_23 (A4), Roimos_24 (A3), SaturnRing_24 (A3), SteMason_23 (A4), Zarafa_24 (A3),

Start 3:

- Found in 6 of 35 (17.1%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Candra_28 (A6), Garak_29 (A6),

Start 4:

- Found in 1 of 35 (2.9%) 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),

Summary by clusters:

There are 8 clusters represented in this pham: A1, A3, A2, A4, A7, A6, A9, A8,

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), (20, 15713), (25, 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), (22, 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), (22, 15608), (28, 15713),

Gene: BennyP_28 Start: 16278, Stop: 16742, Start Num: 2
Candidate Starts for BennyP_28:
(Start: 2 @16278 has 9 MA's), (3, 16323), (7, 16392), (9, 16431), (11, 16440), (12, 16449), (16, 16527), (20, 16572), (25, 16686),

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), (22, 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), (20, 15921), (25, 16023),

Gene: Caitlin_20 Start: 14083, Stop: 14553, Start Num: 2
Candidate Starts for Caitlin_20:
(Start: 2 @14083 has 9 MA's), (6, 14182), (7, 14197), (8, 14233), (17, 14335), (19, 14371), (29, 14503), (30, 14506),

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), (20, 15905), (25, 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), (7, 16428), (9, 16467), (11, 16476), (12, 16485), (16, 16563), (20, 16608), (25, 16722),

Gene: CartmannCramer_23 Start: 17708, Stop: 18178, Start Num: 2
Candidate Starts for CartmannCramer_23:
(Start: 2 @17708 has 9 MA's), (6, 17807), (19, 17996), (21, 18005), (23, 18071), (27, 18128), (29, 18134),

Gene: Celestiallunch_25 Start: 15084, Stop: 15563, Start Num: 2
Candidate Starts for Celestiallunch_25:
(Start: 2 @15084 has 9 MA's), (6, 15183), (16, 15333), (18, 15354), (25, 15489), (28, 15501), (31, 15537),

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), (22, 15608), (28, 15713),

Gene: Clammy_24 Start: 15033, Stop: 15494, Start Num: 2

Candidate Starts for Clammy_24:

(Start: 2 @15033 has 9 MA's), (5, 15117), (6, 15132), (8, 15183), (18, 15303), (22, 15339), (28, 15444),

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

Candidate Starts for DaVinci_28:

(Start: 2 @16279 has 9 MA's), (3, 16324), (7, 16393), (9, 16432), (11, 16441), (12, 16450), (16, 16528), (20, 16573), (25, 16687),

Gene: DelvinSonDorr_27 Start: 16271, Stop: 16735, Start Num: 2

Candidate Starts for DelvinSonDorr_27:

(Start: 2 @16271 has 9 MA's), (3, 16316), (7, 16385), (9, 16424), (11, 16433), (12, 16442), (16, 16520), (20, 16565), (25, 16679),

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), (22, 15399), (28, 15504),

Gene: EtoileNova_25 Start: 15586, Stop: 16047, Start Num: 2

Candidate Starts for EtoileNova_25:

(Start: 2 @15586 has 9 MA's), (5, 15670), (8, 15736), (18, 15856), (20, 15880), (22, 15892), (28, 15997),

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

Candidate Starts for Garak_29:

(Start: 2 @16276 has 9 MA's), (3, 16321), (7, 16390), (9, 16429), (11, 16438), (12, 16447), (16, 16525), (20, 16570), (25, 16684),

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

Candidate Starts for Huxley_24:

(Start: 2 @15485 has 9 MA's), (7, 15599), (14, 15677), (19, 15773), (21, 15782),

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), (22, 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), (7, 16398), (9, 16437), (11, 16446), (12, 16455), (16, 16533), (20, 16578), (25, 16692),

Gene: KekoraPapaka_23 Start: 15421, Stop: 15966, Start Num: 2

Candidate Starts for KekoraPapaka_23:

(Start: 2 @15421 has 9 MA's), (7, 15535), (14, 15613), (19, 15709), (21, 15718),

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

Candidate Starts for Kingmustik0402_24:

(Start: 2 @15413 has 9 MA's), (7, 15527), (14, 15605), (19, 15701), (21, 15710),

Gene: Klodlith_25 Start: 15093, Stop: 15572, Start Num: 2

Candidate Starts for Klodlith_25:

(Start: 2 @15093 has 9 MA's), (5, 15177), (6, 15192), (8, 15243), (10, 15249), (18, 15363), (25, 15498), (26, 15504), (28, 15510), (31, 15546),

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

Candidate Starts for LeoAvram_24:

(Start: 2 @15418 has 9 MA's), (7, 15532), (14, 15610), (19, 15706), (21, 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), (22, 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), (7, 15535), (14, 15613), (19, 15709), (21, 15718),

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), (21, 21609), (29, 21735),

Gene: Prudy_27 Start: 17973, Stop: 18446, Start Num: 2

Candidate Starts for Prudy_27:

(Start: 2 @17973 has 9 MA's), (11, 18135), (18, 18243), (20, 18267), (21, 18270), (24, 18336), (25, 18381), (26, 18387),

Gene: RockieBear_23 Start: 15421, Stop: 15966, Start Num: 2

Candidate Starts for RockieBear_23:

(Start: 2 @15421 has 9 MA's), (7, 15535), (14, 15613), (19, 15709), (21, 15718),

Gene: Roimos_24 Start: 15002, Stop: 15463, Start Num: 2

Candidate Starts for Roimos_24:

(Start: 2 @15002 has 9 MA's), (5, 15086), (6, 15101), (13, 15179), (18, 15272), (22, 15308), (28, 15413),

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), (22, 15339), (28, 15444),

Gene: SteMason_23 Start: 15421, Stop: 15966, Start Num: 2

Candidate Starts for SteMason_23:

(Start: 2 @15421 has 9 MA's), (7, 15535), (14, 15613), (19, 15709), (21, 15718),

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

Candidate Starts for Travvers_28:

(1, 15928), (4, 16132), (11, 16213), (21, 16348), (25, 16453), (26, 16459),

Gene: Zarafa_24 Start: 15095, Stop: 15556, Start Num: 2

Candidate Starts for Zarafa_24:

(Start: 2 @15095 has 9 MA's), (5, 15179), (6, 15194), (8, 15245), (18, 15365), (22, 15401), (28, 15506),