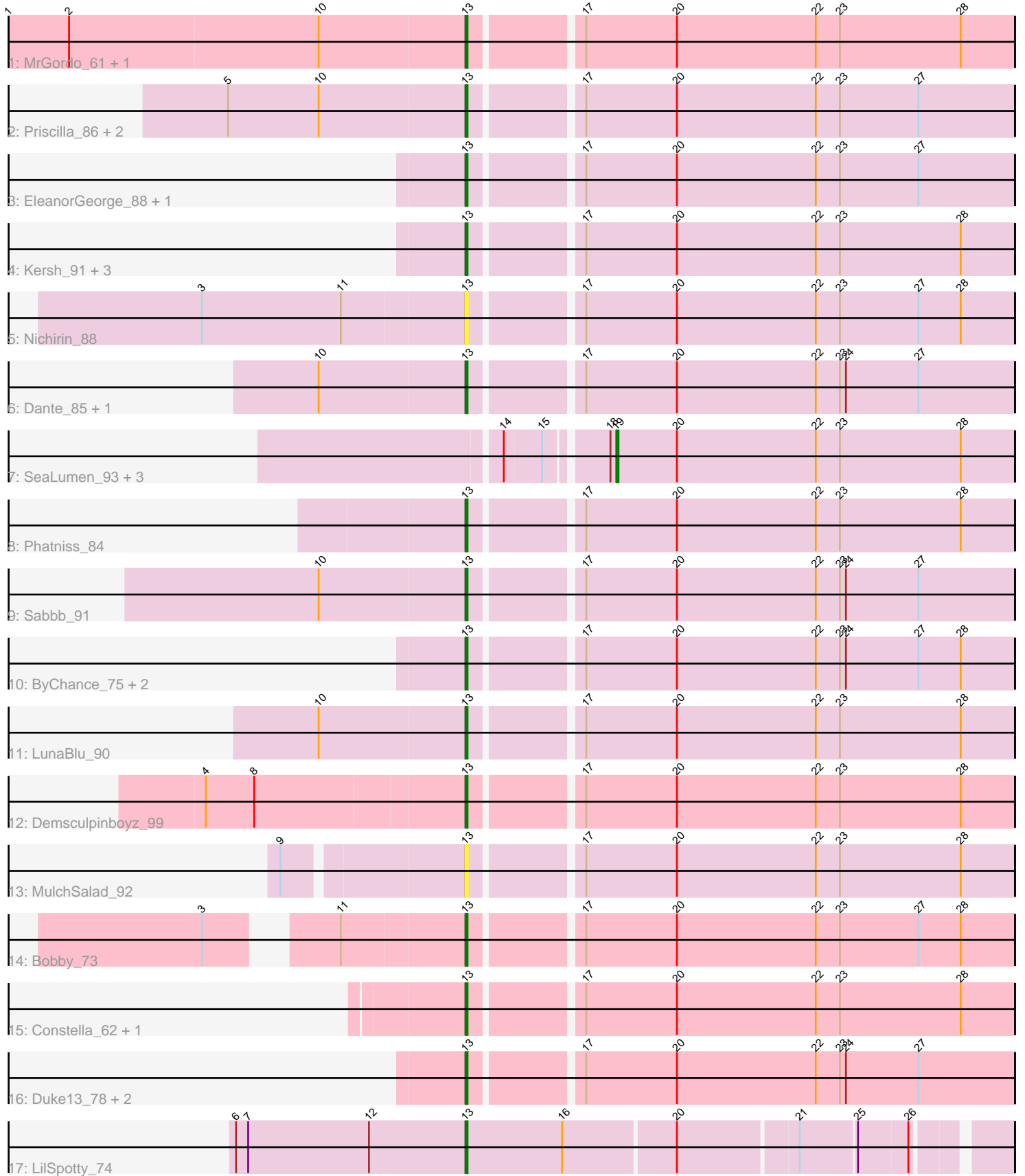


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 308992 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308992 has 33 members, 6 are drafts.

Phages represented in each track:

- Track 1 : MrGordo\_61, Big3\_60
- Track 2 : Priscilla\_86, NormanBulbieJr\_84, Koella\_78
- Track 3 : EleanorGeorge\_88, VRedHorse\_88
- Track 4 : Kersh\_91, Avani\_92, Frankie\_91, Estave1\_95
- Track 5 : Nichirin\_88
- Track 6 : Dante\_85, Latretium\_88
- Track 7 : SeaLumen\_93, Enzomatic\_97, NewHope4\_91, Polo2Bam\_96
- Track 8 : Phatniss\_84
- Track 9 : Sabbb\_91
- Track 10 : ByChance\_75, ShowerHandel\_84, Martik\_83
- Track 11 : LunaBlu\_90
- Track 12 : Demsculpinboyz\_99
- Track 13 : MulchSalad\_92
- Track 14 : Bobby\_73
- Track 15 : Constella\_62, Xiaokay\_66
- Track 16 : Duke13\_78, BAKA\_80, Sandalphon\_86
- Track 17 : LilSpotty\_74

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

The start number called the most often in the published annotations is 13, it was called in 26 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Avani\_92, BAKA\_80, Big3\_60, Bobby\_73, ByChance\_75, Constella\_62, Dante\_85, Demsculpinboyz\_99, Duke13\_78, EleanorGeorge\_88, Estave1\_95, Frankie\_91, Kersh\_91, Koella\_78, Latretium\_88, LilSpotty\_74, LunaBlu\_90, Martik\_83, MrGordo\_61, MulchSalad\_92, Nichirin\_88, NormanBulbieJr\_84, Phatniss\_84, Priscilla\_86, Sabbb\_91, Sandalphon\_86, ShowerHandel\_84, VRedHorse\_88, Xiaokay\_66,

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

-

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

- Enzomatic\_97, NewHope4\_91, Polo2Bam\_96, SeaLumen\_93,

### Summary by start number:

Start 13:

- Found in 29 of 33 ( 87.9% ) of genes in pham
- Manual Annotations of this start: 26 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Avani\_92 (F2), BAKA\_80 (J), Big3\_60 (A1), Bobby\_73 (J), ByChance\_75 (F1), Constella\_62 (J), Dante\_85 (F1), Demsculpinboyz\_99 (F2), Duke13\_78 (J), EleanorGeorge\_88 (F1), Estave1\_95 (F1), Frankie\_91 (F1), Kersh\_91 (F1), Koella\_78 (F1), Latretium\_88 (F1), LilSpotty\_74 (singleton), LunaBlu\_90 (F1), Martik\_83 (F1), MrGordo\_61 (A1), MulchSalad\_92 (F7), Nichirin\_88 (F1), NormanBulbieJr\_84 (F1), Phatniss\_84 (F1), Priscilla\_86 (F1), Sabbb\_91 (F1), Sandalphon\_86 (F1), ShowerHandel\_84 (F1), VRedHorse\_88 (F1), Xiaokay\_66 (J),

Start 19:

- Found in 4 of 33 ( 12.1% ) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Enzomatic\_97 (F1), NewHope4\_91 (F1), Polo2Bam\_96 (F1), SeaLumen\_93 (F1),

### Summary by clusters:

There are 6 clusters represented in this pham: F1, F2, F7, J, singleton, A1,

Info for manual annotations of cluster A1:

- Start number 13 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster F1:

- Start number 13 was manually annotated 17 times for cluster F1.
- Start number 19 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 13 was manually annotated 2 times for cluster F2.

Info for manual annotations of cluster J:

- Start number 13 was manually annotated 4 times for cluster J.

### Gene Information:

Gene: Avani\_92 Start: 47963, Stop: 48226, Start Num: 13

Candidate Starts for Avani\_92:

(Start: 13 @47963 has 26 MA's), (17, 48014), (20, 48059), (22, 48128), (23, 48140), (28, 48200),

Gene: BAKA\_80 Start: 51903, Stop: 51640, Start Num: 13

Candidate Starts for BAKA\_80:

(Start: 13 @51903 has 26 MA's), (17, 51852), (20, 51807), (22, 51738), (23, 51726), (24, 51723), (27, 51687),

Gene: Big3\_60 Start: 41353, Stop: 41090, Start Num: 13

Candidate Starts for Big3\_60:

(1, 41578), (2, 41548), (10, 41425), (Start: 13 @41353 has 26 MA's), (17, 41302), (20, 41257), (22, 41188), (23, 41176), (28, 41116),

Gene: Bobby\_73 Start: 50187, Stop: 49924, Start Num: 13

Candidate Starts for Bobby\_73:

(3, 50295), (11, 50247), (Start: 13 @50187 has 26 MA's), (17, 50136), (20, 50091), (22, 50022), (23, 50010), (27, 49971), (28, 49950),

Gene: ByChance\_75 Start: 45418, Stop: 45681, Start Num: 13

Candidate Starts for ByChance\_75:

(Start: 13 @45418 has 26 MA's), (17, 45469), (20, 45514), (22, 45583), (23, 45595), (24, 45598), (27, 45634), (28, 45655),

Gene: Constella\_62 Start: 45574, Stop: 45311, Start Num: 13

Candidate Starts for Constella\_62:

(Start: 13 @45574 has 26 MA's), (17, 45523), (20, 45478), (22, 45409), (23, 45397), (28, 45337),

Gene: Dante\_85 Start: 51977, Stop: 52240, Start Num: 13

Candidate Starts for Dante\_85:

(10, 51905), (Start: 13 @51977 has 26 MA's), (17, 52028), (20, 52073), (22, 52142), (23, 52154), (24, 52157), (27, 52193),

Gene: Demsculpinboyz\_99 Start: 49902, Stop: 50165, Start Num: 13

Candidate Starts for Demsculpinboyz\_99:

(4, 49776), (8, 49800), (Start: 13 @49902 has 26 MA's), (17, 49953), (20, 49998), (22, 50067), (23, 50079), (28, 50139),

Gene: Duke13\_78 Start: 51115, Stop: 50852, Start Num: 13

Candidate Starts for Duke13\_78:

(Start: 13 @51115 has 26 MA's), (17, 51064), (20, 51019), (22, 50950), (23, 50938), (24, 50935), (27, 50899),

Gene: EleanorGeorge\_88 Start: 51489, Stop: 51752, Start Num: 13

Candidate Starts for EleanorGeorge\_88:

(Start: 13 @51489 has 26 MA's), (17, 51540), (20, 51585), (22, 51654), (23, 51666), (27, 51705),

Gene: Enzomatic\_97 Start: 49400, Stop: 49597, Start Num: 19

Candidate Starts for Enzomatic\_97:

(14, 49352), (15, 49370), (18, 49397), (Start: 19 @49400 has 1 MA's), (20, 49430), (22, 49499), (23, 49511), (28, 49571),

Gene: Estave1\_95 Start: 54321, Stop: 54584, Start Num: 13

Candidate Starts for Estave1\_95:

(Start: 13 @54321 has 26 MA's), (17, 54372), (20, 54417), (22, 54486), (23, 54498), (28, 54558),

Gene: Frankie\_91 Start: 51073, Stop: 51336, Start Num: 13

Candidate Starts for Frankie\_91:

(Start: 13 @51073 has 26 MA's), (17, 51124), (20, 51169), (22, 51238), (23, 51250), (28, 51310),

Gene: Kersh\_91 Start: 53207, Stop: 53470, Start Num: 13

Candidate Starts for Kersh\_91:

(Start: 13 @53207 has 26 MA's), (17, 53258), (20, 53303), (22, 53372), (23, 53384), (28, 53444),

Gene: Koella\_78 Start: 46912, Stop: 47175, Start Num: 13

Candidate Starts for Koella\_78:

(5, 46795), (10, 46840), (Start: 13 @46912 has 26 MA's), (17, 46963), (20, 47008), (22, 47077), (23, 47089), (27, 47128),

Gene: Latretium\_88 Start: 50268, Stop: 50531, Start Num: 13

Candidate Starts for Latretium\_88:

(10, 50196), (Start: 13 @50268 has 26 MA's), (17, 50319), (20, 50364), (22, 50433), (23, 50445), (24, 50448), (27, 50484),

Gene: LilSpotty\_74 Start: 43948, Stop: 44199, Start Num: 13

Candidate Starts for LilSpotty\_74:

(6, 43834), (7, 43840), (12, 43900), (Start: 13 @43948 has 26 MA's), (16, 43996), (20, 44050), (21, 44107), (25, 44134), (26, 44158),

Gene: LunaBlu\_90 Start: 51410, Stop: 51673, Start Num: 13

Candidate Starts for LunaBlu\_90:

(10, 51338), (Start: 13 @51410 has 26 MA's), (17, 51461), (20, 51506), (22, 51575), (23, 51587), (28, 51647),

Gene: Martik\_83 Start: 51429, Stop: 51692, Start Num: 13

Candidate Starts for Martik\_83:

(Start: 13 @51429 has 26 MA's), (17, 51480), (20, 51525), (22, 51594), (23, 51606), (24, 51609), (27, 51645), (28, 51666),

Gene: MrGordo\_61 Start: 40593, Stop: 40330, Start Num: 13

Candidate Starts for MrGordo\_61:

(1, 40818), (2, 40788), (10, 40665), (Start: 13 @40593 has 26 MA's), (17, 40542), (20, 40497), (22, 40428), (23, 40416), (28, 40356),

Gene: MulchSalad\_92 Start: 52045, Stop: 52308, Start Num: 13

Candidate Starts for MulchSalad\_92:

(9, 51961), (Start: 13 @52045 has 26 MA's), (17, 52096), (20, 52141), (22, 52210), (23, 52222), (28, 52282),

Gene: NewHope4\_91 Start: 49546, Stop: 49743, Start Num: 19

Candidate Starts for NewHope4\_91:

(14, 49498), (15, 49516), (18, 49543), (Start: 19 @49546 has 1 MA's), (20, 49576), (22, 49645), (23, 49657), (28, 49717),

Gene: Nichirin\_88 Start: 51229, Stop: 51492, Start Num: 13

Candidate Starts for Nichirin\_88:

(3, 51100), (11, 51169), (Start: 13 @51229 has 26 MA's), (17, 51280), (20, 51325), (22, 51394), (23, 51406), (27, 51445), (28, 51466),

Gene: NormanBulbieJr\_84 Start: 50926, Stop: 51189, Start Num: 13

Candidate Starts for NormanBulbieJr\_84:

(5, 50809), (10, 50854), (Start: 13 @50926 has 26 MA's), (17, 50977), (20, 51022), (22, 51091), (23, 51103), (27, 51142),

Gene: Phatniss\_84 Start: 49778, Stop: 50041, Start Num: 13

Candidate Starts for Phatniss\_84:

(Start: 13 @49778 has 26 MA's), (17, 49829), (20, 49874), (22, 49943), (23, 49955), (28, 50015),

Gene: Polo2Bam\_96 Start: 49400, Stop: 49597, Start Num: 19

Candidate Starts for Polo2Bam\_96:

(14, 49352), (15, 49370), (18, 49397), (Start: 19 @49400 has 1 MA's), (20, 49430), (22, 49499), (23, 49511), (28, 49571),

Gene: Priscilla\_86 Start: 51024, Stop: 51287, Start Num: 13

Candidate Starts for Priscilla\_86:

(5, 50907), (10, 50952), (Start: 13 @51024 has 26 MA's), (17, 51075), (20, 51120), (22, 51189), (23, 51201), (27, 51240),

Gene: Sabbb\_91 Start: 49225, Stop: 49488, Start Num: 13

Candidate Starts for Sabbb\_91:

(10, 49153), (Start: 13 @49225 has 26 MA's), (17, 49276), (20, 49321), (22, 49390), (23, 49402), (24, 49405), (27, 49441),

Gene: Sandalphon\_86 Start: 51411, Stop: 51674, Start Num: 13

Candidate Starts for Sandalphon\_86:

(Start: 13 @51411 has 26 MA's), (17, 51462), (20, 51507), (22, 51576), (23, 51588), (24, 51591), (27, 51627),

Gene: SeaLumen\_93 Start: 49400, Stop: 49597, Start Num: 19

Candidate Starts for SeaLumen\_93:

(14, 49352), (15, 49370), (18, 49397), (Start: 19 @49400 has 1 MA's), (20, 49430), (22, 49499), (23, 49511), (28, 49571),

Gene: ShowerHandel\_84 Start: 49356, Stop: 49619, Start Num: 13

Candidate Starts for ShowerHandel\_84:

(Start: 13 @49356 has 26 MA's), (17, 49407), (20, 49452), (22, 49521), (23, 49533), (24, 49536), (27, 49572), (28, 49593),

Gene: VRedHorse\_88 Start: 48460, Stop: 48723, Start Num: 13

Candidate Starts for VRedHorse\_88:

(Start: 13 @48460 has 26 MA's), (17, 48511), (20, 48556), (22, 48625), (23, 48637), (27, 48676),

Gene: Xiaokay\_66 Start: 47435, Stop: 47172, Start Num: 13

Candidate Starts for Xiaokay\_66:

(Start: 13 @47435 has 26 MA's), (17, 47384), (20, 47339), (22, 47270), (23, 47258), (28, 47198),