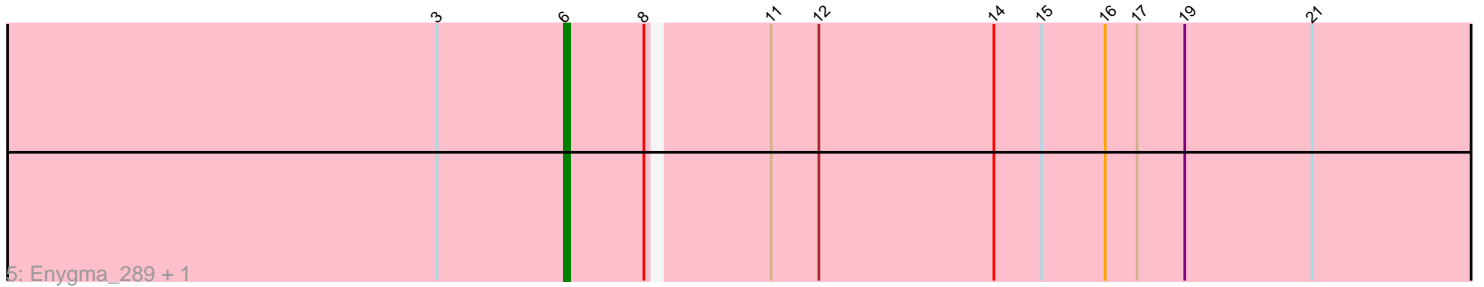
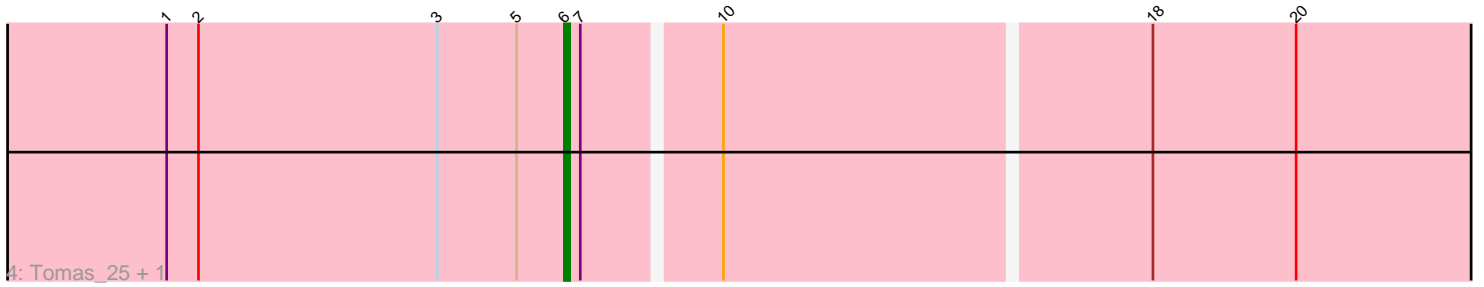
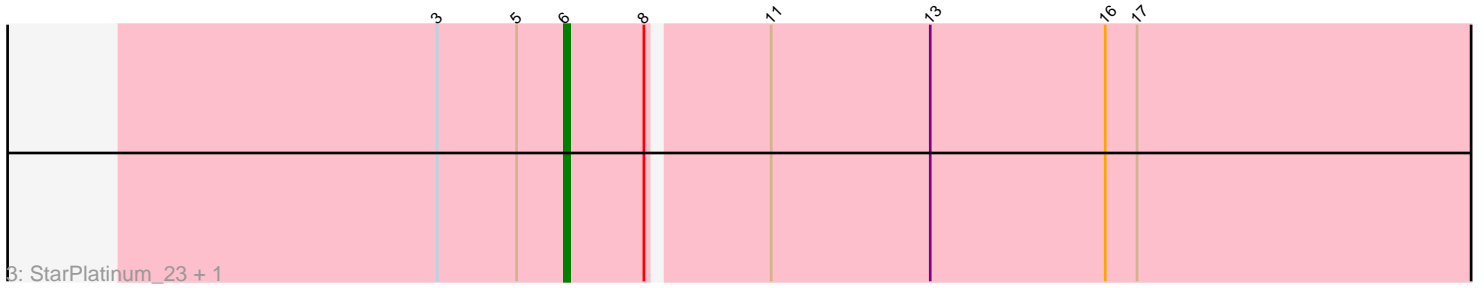
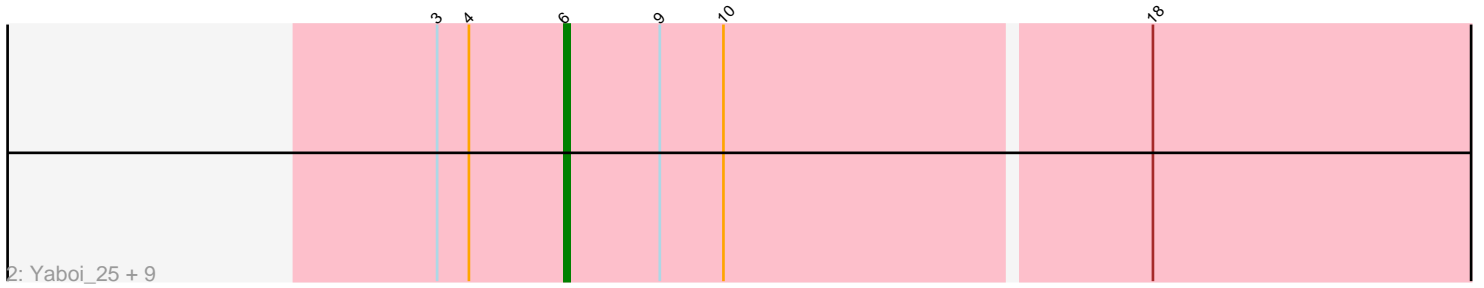
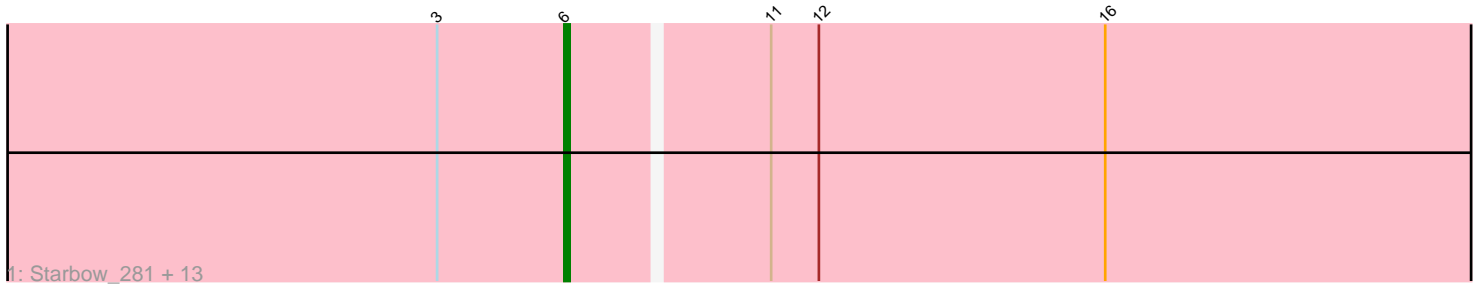


Pham 221666



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 221666 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221666 has 30 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Starbow_281, Birchlyn_281, Karimac_24, Quaran19_285, IchabodCrane_23, Battuta_281, Bordeaux_281, Karimac_282, Bordeaux_24, Battuta_24, Starbow_24, Birchlyn_21, Quaran19_24, IchabodCrane_276
- Track 2 : Yaboi_25, Genie2_25, Sollertia_281, Stanimal_25, BoomerJR_280, Yaboi_285, Stanimal_280, Sollertia_25, BoomerJR_25, Genie2_280
- Track 3 : StarPlatinum_23, StarPlatinum_293
- Track 4 : Tomas_25, Tomas_281
- Track 5 : Enygma_289, Enygma_21

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

The start number called the most often in the published annotations is 6, it was called in 30 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Battuta_24, Battuta_281, Birchlyn_21, Birchlyn_281, BoomerJR_25, BoomerJR_280, Bordeaux_24, Bordeaux_281, Enygma_21, Enygma_289, Genie2_25, Genie2_280, IchabodCrane_23, IchabodCrane_276, Karimac_24, Karimac_282, Quaran19_24, Quaran19_285, Sollertia_25, Sollertia_281, Stanimal_25, Stanimal_280, StarPlatinum_23, StarPlatinum_293, Starbow_24, Starbow_281, Tomas_25, Tomas_281, Yaboi_25, Yaboi_285,

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

-

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

-

Summary by start number:

Start 6:

- Found in 30 of 30 (100.0%) of genes in pham
- Manual Annotations of this start: 30 of 30
- Called 100.0% of time when present

• Phage (with cluster) where this start called: Battuta_24 (BE2), Battuta_281 (BE2), Birchlyn_21 (BE2), Birchlyn_281 (BE2), BoomerJR_25 (BE2), BoomerJR_280 (BE2), Bordeaux_24 (BE2), Bordeaux_281 (BE2), Enygma_21 (BE2), Enygma_289 (BE2), Genie2_25 (BE2), Genie2_280 (BE2), IchabodCrane_23 (BE2), IchabodCrane_276 (BE2), Karimac_24 (BE2), Karimac_282 (BE2), Quaran19_24 (BE2), Quaran19_285 (BE2), Sollertia_25 (BE2), Sollertia_281 (BE2), Stanimal_25 (BE2), Stanimal_280 (BE2), StarPlatinum_23 (BE2), StarPlatinum_293 (BE2), Starbow_24 (BE2), Starbow_281 (BE2), Tomas_25 (BE2), Tomas_281 (BE2), Yaboi_25 (BE2), Yaboi_285 (BE2),

Summary by clusters:

There is one cluster represented in this pham: BE2

Info for manual annotations of cluster BE2:

•Start number 6 was manually annotated 30 times for cluster BE2.

Gene Information:

Gene: Battuta_281 Start: 129262, Stop: 129086, Start Num: 6

Candidate Starts for Battuta_281:

(3, 129286), (Start: 6 @129262 has 30 MA's), (11, 129226), (12, 129217), (16, 129163),

Gene: Battuta_24 Start: 11107, Stop: 10931, Start Num: 6

Candidate Starts for Battuta_24:

(3, 11131), (Start: 6 @11107 has 30 MA's), (11, 11071), (12, 11062), (16, 11008),

Gene: Birchlyn_281 Start: 125051, Stop: 124875, Start Num: 6

Candidate Starts for Birchlyn_281:

(3, 125075), (Start: 6 @125051 has 30 MA's), (11, 125015), (12, 125006), (16, 124952),

Gene: Birchlyn_21 Start: 8960, Stop: 8784, Start Num: 6

Candidate Starts for Birchlyn_21:

(3, 8984), (Start: 6 @8960 has 30 MA's), (11, 8924), (12, 8915), (16, 8861),

Gene: BoomerJR_280 Start: 129805, Stop: 129629, Start Num: 6

Candidate Starts for BoomerJR_280:

(3, 129829), (4, 129823), (Start: 6 @129805 has 30 MA's), (9, 129787), (10, 129775), (18, 129697),

Gene: BoomerJR_25 Start: 11017, Stop: 10841, Start Num: 6

Candidate Starts for BoomerJR_25:

(3, 11041), (4, 11035), (Start: 6 @11017 has 30 MA's), (9, 10999), (10, 10987), (18, 10909),

Gene: Bordeaux_281 Start: 129845, Stop: 129669, Start Num: 6

Candidate Starts for Bordeaux_281:

(3, 129869), (Start: 6 @129845 has 30 MA's), (11, 129809), (12, 129800), (16, 129746),

Gene: Bordeaux_24 Start: 11107, Stop: 10931, Start Num: 6

Candidate Starts for Bordeaux_24:

(3, 11131), (Start: 6 @11107 has 30 MA's), (11, 11071), (12, 11062), (16, 11008),

Gene: Enygma_289 Start: 132546, Stop: 132367, Start Num: 6
Candidate Starts for Enygma_289:
(3, 132570), (Start: 6 @132546 has 30 MA's), (8, 132531), (11, 132510), (12, 132501), (14, 132468),
(15, 132459), (16, 132447), (17, 132441), (19, 132432), (21, 132408),

Gene: Enygma_21 Start: 10122, Stop: 9943, Start Num: 6
Candidate Starts for Enygma_21:
(3, 10146), (Start: 6 @10122 has 30 MA's), (8, 10107), (11, 10086), (12, 10077), (14, 10044), (15,
10035), (16, 10023), (17, 10017), (19, 10008), (21, 9984),

Gene: Genie2_25 Start: 11017, Stop: 10841, Start Num: 6
Candidate Starts for Genie2_25:
(3, 11041), (4, 11035), (Start: 6 @11017 has 30 MA's), (9, 10999), (10, 10987), (18, 10909),

Gene: Genie2_280 Start: 129918, Stop: 129742, Start Num: 6
Candidate Starts for Genie2_280:
(3, 129942), (4, 129936), (Start: 6 @129918 has 30 MA's), (9, 129900), (10, 129888), (18, 129810),

Gene: IchabodCrane_23 Start: 10715, Stop: 10539, Start Num: 6
Candidate Starts for IchabodCrane_23:
(3, 10739), (Start: 6 @10715 has 30 MA's), (11, 10679), (12, 10670), (16, 10616),

Gene: IchabodCrane_276 Start: 129258, Stop: 129082, Start Num: 6
Candidate Starts for IchabodCrane_276:
(3, 129282), (Start: 6 @129258 has 30 MA's), (11, 129222), (12, 129213), (16, 129159),

Gene: Karimac_24 Start: 11118, Stop: 10942, Start Num: 6
Candidate Starts for Karimac_24:
(3, 11142), (Start: 6 @11118 has 30 MA's), (11, 11082), (12, 11073), (16, 11019),

Gene: Karimac_282 Start: 130437, Stop: 130261, Start Num: 6
Candidate Starts for Karimac_282:
(3, 130461), (Start: 6 @130437 has 30 MA's), (11, 130401), (12, 130392), (16, 130338),

Gene: Quaran19_285 Start: 130289, Stop: 130113, Start Num: 6
Candidate Starts for Quaran19_285:
(3, 130313), (Start: 6 @130289 has 30 MA's), (11, 130253), (12, 130244), (16, 130190),

Gene: Quaran19_24 Start: 11107, Stop: 10931, Start Num: 6
Candidate Starts for Quaran19_24:
(3, 11131), (Start: 6 @11107 has 30 MA's), (11, 11071), (12, 11062), (16, 11008),

Gene: Sollertia_281 Start: 129907, Stop: 129731, Start Num: 6
Candidate Starts for Sollertia_281:
(3, 129931), (4, 129925), (Start: 6 @129907 has 30 MA's), (9, 129889), (10, 129877), (18, 129799),

Gene: Sollertia_25 Start: 11017, Stop: 10841, Start Num: 6
Candidate Starts for Sollertia_25:
(3, 11041), (4, 11035), (Start: 6 @11017 has 30 MA's), (9, 10999), (10, 10987), (18, 10909),

Gene: Stanimal_25 Start: 11017, Stop: 10841, Start Num: 6
Candidate Starts for Stanimal_25:
(3, 11041), (4, 11035), (Start: 6 @11017 has 30 MA's), (9, 10999), (10, 10987), (18, 10909),

Gene: Stanimal_280 Start: 130291, Stop: 130115, Start Num: 6

Candidate Starts for Stanimal_280:

(3, 130315), (4, 130309), (Start: 6 @130291 has 30 MA's), (9, 130273), (10, 130261), (18, 130183),

Gene: StarPlatinum_23 Start: 10770, Stop: 10594, Start Num: 6

Candidate Starts for StarPlatinum_23:

(3, 10794), (5, 10779), (Start: 6 @10770 has 30 MA's), (8, 10755), (11, 10734), (13, 10704), (16, 10671), (17, 10665),

Gene: StarPlatinum_293 Start: 132457, Stop: 132281, Start Num: 6

Candidate Starts for StarPlatinum_293:

(3, 132481), (5, 132466), (Start: 6 @132457 has 30 MA's), (8, 132442), (11, 132421), (13, 132391), (16, 132358), (17, 132352),

Gene: Starbow_281 Start: 129955, Stop: 129779, Start Num: 6

Candidate Starts for Starbow_281:

(3, 129979), (Start: 6 @129955 has 30 MA's), (11, 129919), (12, 129910), (16, 129856),

Gene: Starbow_24 Start: 11107, Stop: 10931, Start Num: 6

Candidate Starts for Starbow_24:

(3, 11131), (Start: 6 @11107 has 30 MA's), (11, 11071), (12, 11062), (16, 11008),

Gene: Tomas_25 Start: 11320, Stop: 11141, Start Num: 6

Candidate Starts for Tomas_25:

(1, 11395), (2, 11389), (3, 11344), (5, 11329), (Start: 6 @11320 has 30 MA's), (7, 11317), (10, 11293), (18, 11215), (20, 11188),

Gene: Tomas_281 Start: 133027, Stop: 132848, Start Num: 6

Candidate Starts for Tomas_281:

(1, 133102), (2, 133096), (3, 133051), (5, 133036), (Start: 6 @133027 has 30 MA's), (7, 133024), (10, 133000), (18, 132922), (20, 132895),

Gene: Yaboi_25 Start: 11017, Stop: 10841, Start Num: 6

Candidate Starts for Yaboi_25:

(3, 11041), (4, 11035), (Start: 6 @11017 has 30 MA's), (9, 10999), (10, 10987), (18, 10909),

Gene: Yaboi_285 Start: 129835, Stop: 129659, Start Num: 6

Candidate Starts for Yaboi_285:

(3, 129859), (4, 129853), (Start: 6 @129835 has 30 MA's), (9, 129817), (10, 129805), (18, 129727),