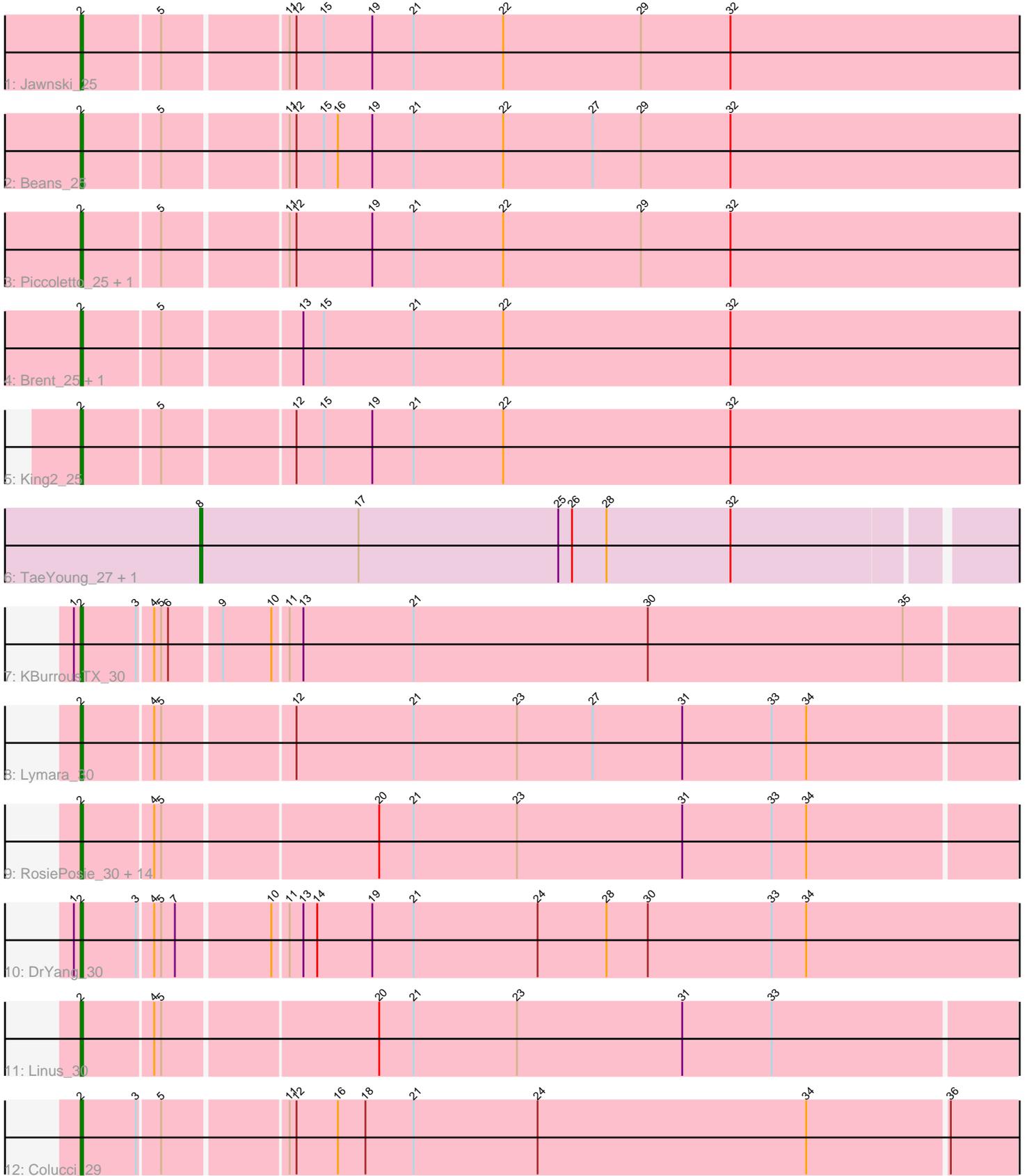


Pham 291416



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 291416 Report

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

Pham number 291416 has 29 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Jawnski_25
- Track 2 : Beans_25
- Track 3 : Piccoletto_25, NathanVaag_25
- Track 4 : Brent_25, Franzy_25
- Track 5 : King2_25
- Track 6 : TaeYoung_27, Grekaycon_27
- Track 7 : KBurrousTX_30
- Track 8 : Lymara_30
- Track 9 : RosiePosie_30, EdgarPoe_30, Mordred_30, JaNo_30, Tophat_30, JayCookie_30, HumptyDumpty_30, Chocolat_30, MoyaNatalis_30, Kabreeze_30, Scavito_30, Conboy_30, PrincessTrina_30, Chipper1996_300, Chubster_30
- Track 10 : DrYang_30
- Track 11 : Linus_30
- Track 12 : Colucci_29

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 26 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beans_25, Brent_25, Chipper1996_300, Chocolat_30, Chubster_30, Colucci_29, Conboy_30, DrYang_30, EdgarPoe_30, Franzy_25, HumptyDumpty_30, JaNo_30, Jawnski_25, JayCookie_30, KBurrousTX_30, Kabreeze_30, King2_25, Linus_30, Lymara_30, Mordred_30, MoyaNatalis_30, NathanVaag_25, Piccoletto_25, PrincessTrina_30, RosiePosie_30, Scavito_30, Tophat_30,

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

-

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

- Grekaycon_27, TaeYoung_27,

Summary by start number:

Start 2:

- Found in 27 of 29 (93.1%) of genes in pham
- Manual Annotations of this start: 26 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beans_25 (AO1), Brent_25 (AO1), Chipper1996_300 (AR), Chocolat_30 (AR), Chubster_30 (AR), Colucci_29 (AR), Conboy_30 (AR), DrYang_30 (AR), EdgarPoe_30 (AR), Franzy_25 (AO1), HumptyDumpty_30 (AR), JaNo_30 (AR), Jawnski_25 (AO1), JayCookie_30 (AR), KBurrousTX_30 (AR), Kabreeze_30 (AR), King2_25 (AO1), Linus_30 (AR), Lymara_30 (AR), Mordred_30 (AR), MoyaNatalis_30 (AR), NathanVaag_25 (AO1), Piccoletto_25 (AO1), PrincessTrina_30 (AR), RosiePosie_30 (AR), Scavito_30 (AR), Tophat_30 (AR),

Start 8:

- Found in 2 of 29 (6.9%) of genes in pham
- Manual Annotations of this start: 2 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grekaycon_27 (AO2), TaeYoung_27 (AO2),

Summary by clusters:

There are 3 clusters represented in this pham: AR, AO2, AO1,

Info for manual annotations of cluster AO1:

- Start number 2 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:

- Start number 8 was manually annotated 2 times for cluster AO2.

Info for manual annotations of cluster AR:

- Start number 2 was manually annotated 19 times for cluster AR.

Gene Information:

Gene: Beans_25 Start: 22993, Stop: 23403, Start Num: 2

Candidate Starts for Beans_25:

(Start: 2 @22993 has 26 MA's), (5, 23026), (11, 23077), (12, 23080), (15, 23092), (16, 23098), (19, 23113), (21, 23131), (22, 23170), (27, 23209), (29, 23230), (32, 23269),

Gene: Brent_25 Start: 22975, Stop: 23376, Start Num: 2

Candidate Starts for Brent_25:

(Start: 2 @22975 has 26 MA's), (5, 23008), (13, 23065), (15, 23074), (21, 23113), (22, 23152), (32, 23251),

Gene: Chipper1996_300 Start: 26146, Stop: 26550, Start Num: 2

Candidate Starts for Chipper1996_300:

(Start: 2 @26146 has 26 MA's), (4, 26176), (5, 26179), (20, 26269), (21, 26284), (23, 26329), (31, 26401), (33, 26440), (34, 26455),

Gene: Chocolat_30 Start: 26146, Stop: 26550, Start Num: 2

Candidate Starts for Chocolat_30:

(Start: 2 @26146 has 26 MA's), (4, 26176), (5, 26179), (20, 26269), (21, 26284), (23, 26329), (31, 26401), (33, 26440), (34, 26455),

Gene: Chubster_30 Start: 25917, Stop: 26321, Start Num: 2

Candidate Starts for Chubster_30:

(Start: 2 @25917 has 26 MA's), (4, 25947), (5, 25950), (20, 26040), (21, 26055), (23, 26100), (31, 26172), (33, 26211), (34, 26226),

Gene: Colucci_29 Start: 25615, Stop: 26019, Start Num: 2

Candidate Starts for Colucci_29:

(Start: 2 @25615 has 26 MA's), (3, 25639), (5, 25648), (11, 25699), (12, 25702), (16, 25720), (18, 25732), (21, 25753), (24, 25807), (34, 25924), (36, 25984),

Gene: Conboy_30 Start: 26145, Stop: 26549, Start Num: 2

Candidate Starts for Conboy_30:

(Start: 2 @26145 has 26 MA's), (4, 26175), (5, 26178), (20, 26268), (21, 26283), (23, 26328), (31, 26400), (33, 26439), (34, 26454),

Gene: DrYang_30 Start: 27237, Stop: 27644, Start Num: 2

Candidate Starts for DrYang_30:

(1, 27234), (Start: 2 @27237 has 26 MA's), (3, 27261), (4, 27267), (5, 27270), (7, 27276), (10, 27315), (11, 27321), (13, 27327), (14, 27333), (19, 27357), (21, 27375), (24, 27429), (28, 27459), (30, 27477), (33, 27531), (34, 27546),

Gene: EdgarPoe_30 Start: 26145, Stop: 26549, Start Num: 2

Candidate Starts for EdgarPoe_30:

(Start: 2 @26145 has 26 MA's), (4, 26175), (5, 26178), (20, 26268), (21, 26283), (23, 26328), (31, 26400), (33, 26439), (34, 26454),

Gene: Franzy_25 Start: 22974, Stop: 23375, Start Num: 2

Candidate Starts for Franzy_25:

(Start: 2 @22974 has 26 MA's), (5, 23007), (13, 23064), (15, 23073), (21, 23112), (22, 23151), (32, 23250),

Gene: Grekaycon_27 Start: 23301, Stop: 23657, Start Num: 8

Candidate Starts for Grekaycon_27:

(Start: 8 @23301 has 2 MA's), (17, 23370), (25, 23457), (26, 23463), (28, 23478), (32, 23532),

Gene: HumptyDumpty_30 Start: 26144, Stop: 26548, Start Num: 2

Candidate Starts for HumptyDumpty_30:

(Start: 2 @26144 has 26 MA's), (4, 26174), (5, 26177), (20, 26267), (21, 26282), (23, 26327), (31, 26399), (33, 26438), (34, 26453),

Gene: JaNo_30 Start: 26144, Stop: 26548, Start Num: 2

Candidate Starts for JaNo_30:

(Start: 2 @26144 has 26 MA's), (4, 26174), (5, 26177), (20, 26267), (21, 26282), (23, 26327), (31, 26399), (33, 26438), (34, 26453),

Gene: Jawnski_25 Start: 22988, Stop: 23398, Start Num: 2

Candidate Starts for Jawnski_25:

(Start: 2 @22988 has 26 MA's), (5, 23021), (11, 23072), (12, 23075), (15, 23087), (19, 23108), (21, 23126), (22, 23165), (29, 23225), (32, 23264),

Gene: JayCookie_30 Start: 26147, Stop: 26551, Start Num: 2

Candidate Starts for JayCookie_30:

(Start: 2 @26147 has 26 MA's), (4, 26177), (5, 26180), (20, 26270), (21, 26285), (23, 26330), (31, 26402), (33, 26441), (34, 26456),

Gene: KBurrousTX_30 Start: 27067, Stop: 27471, Start Num: 2

Candidate Starts for KBurrousTX_30:

(1, 27064), (Start: 2 @27067 has 26 MA's), (3, 27091), (4, 27097), (5, 27100), (6, 27103), (9, 27124), (10, 27145), (11, 27151), (13, 27157), (21, 27205), (30, 27307), (35, 27418),

Gene: Kabreeze_30 Start: 26144, Stop: 26548, Start Num: 2

Candidate Starts for Kabreeze_30:

(Start: 2 @26144 has 26 MA's), (4, 26174), (5, 26177), (20, 26267), (21, 26282), (23, 26327), (31, 26399), (33, 26438), (34, 26453),

Gene: King2_25 Start: 22993, Stop: 23403, Start Num: 2

Candidate Starts for King2_25:

(Start: 2 @22993 has 26 MA's), (5, 23026), (12, 23080), (15, 23092), (19, 23113), (21, 23131), (22, 23170), (32, 23269),

Gene: Linus_30 Start: 26144, Stop: 26548, Start Num: 2

Candidate Starts for Linus_30:

(Start: 2 @26144 has 26 MA's), (4, 26174), (5, 26177), (20, 26267), (21, 26282), (23, 26327), (31, 26399), (33, 26438),

Gene: Lymara_30 Start: 26142, Stop: 26546, Start Num: 2

Candidate Starts for Lymara_30:

(Start: 2 @26142 has 26 MA's), (4, 26172), (5, 26175), (12, 26229), (21, 26280), (23, 26325), (27, 26358), (31, 26397), (33, 26436), (34, 26451),

Gene: Mordred_30 Start: 26144, Stop: 26548, Start Num: 2

Candidate Starts for Mordred_30:

(Start: 2 @26144 has 26 MA's), (4, 26174), (5, 26177), (20, 26267), (21, 26282), (23, 26327), (31, 26399), (33, 26438), (34, 26453),

Gene: MoyaNatalis_30 Start: 26147, Stop: 26551, Start Num: 2

Candidate Starts for MoyaNatalis_30:

(Start: 2 @26147 has 26 MA's), (4, 26177), (5, 26180), (20, 26270), (21, 26285), (23, 26330), (31, 26402), (33, 26441), (34, 26456),

Gene: NathanVaag_25 Start: 22969, Stop: 23379, Start Num: 2

Candidate Starts for NathanVaag_25:

(Start: 2 @22969 has 26 MA's), (5, 23002), (11, 23053), (12, 23056), (19, 23089), (21, 23107), (22, 23146), (29, 23206), (32, 23245),

Gene: Piccoletto_25 Start: 22968, Stop: 23378, Start Num: 2

Candidate Starts for Piccoletto_25:

(Start: 2 @22968 has 26 MA's), (5, 23001), (11, 23052), (12, 23055), (19, 23088), (21, 23106), (22, 23145), (29, 23205), (32, 23244),

Gene: PrincessTrina_30 Start: 26147, Stop: 26551, Start Num: 2

Candidate Starts for PrincessTrina_30:

(Start: 2 @26147 has 26 MA's), (4, 26177), (5, 26180), (20, 26270), (21, 26285), (23, 26330), (31, 26402), (33, 26441), (34, 26456),

Gene: RosiePosie_30 Start: 26147, Stop: 26551, Start Num: 2

Candidate Starts for RosiePosie_30:

(Start: 2 @26147 has 26 MA's), (4, 26177), (5, 26180), (20, 26270), (21, 26285), (23, 26330), (31, 26402), (33, 26441), (34, 26456),

Gene: Scavito_30 Start: 26144, Stop: 26548, Start Num: 2

Candidate Starts for Scavito_30:

(Start: 2 @26144 has 26 MA's), (4, 26174), (5, 26177), (20, 26267), (21, 26282), (23, 26327), (31, 26399), (33, 26438), (34, 26453),

Gene: TaeYoung_27 Start: 23302, Stop: 23658, Start Num: 8

Candidate Starts for TaeYoung_27:

(Start: 8 @23302 has 2 MA's), (17, 23371), (25, 23458), (26, 23464), (28, 23479), (32, 23533),

Gene: Tophat_30 Start: 26146, Stop: 26550, Start Num: 2

Candidate Starts for Tophat_30:

(Start: 2 @26146 has 26 MA's), (4, 26176), (5, 26179), (20, 26269), (21, 26284), (23, 26329), (31, 26401), (33, 26440), (34, 26455),