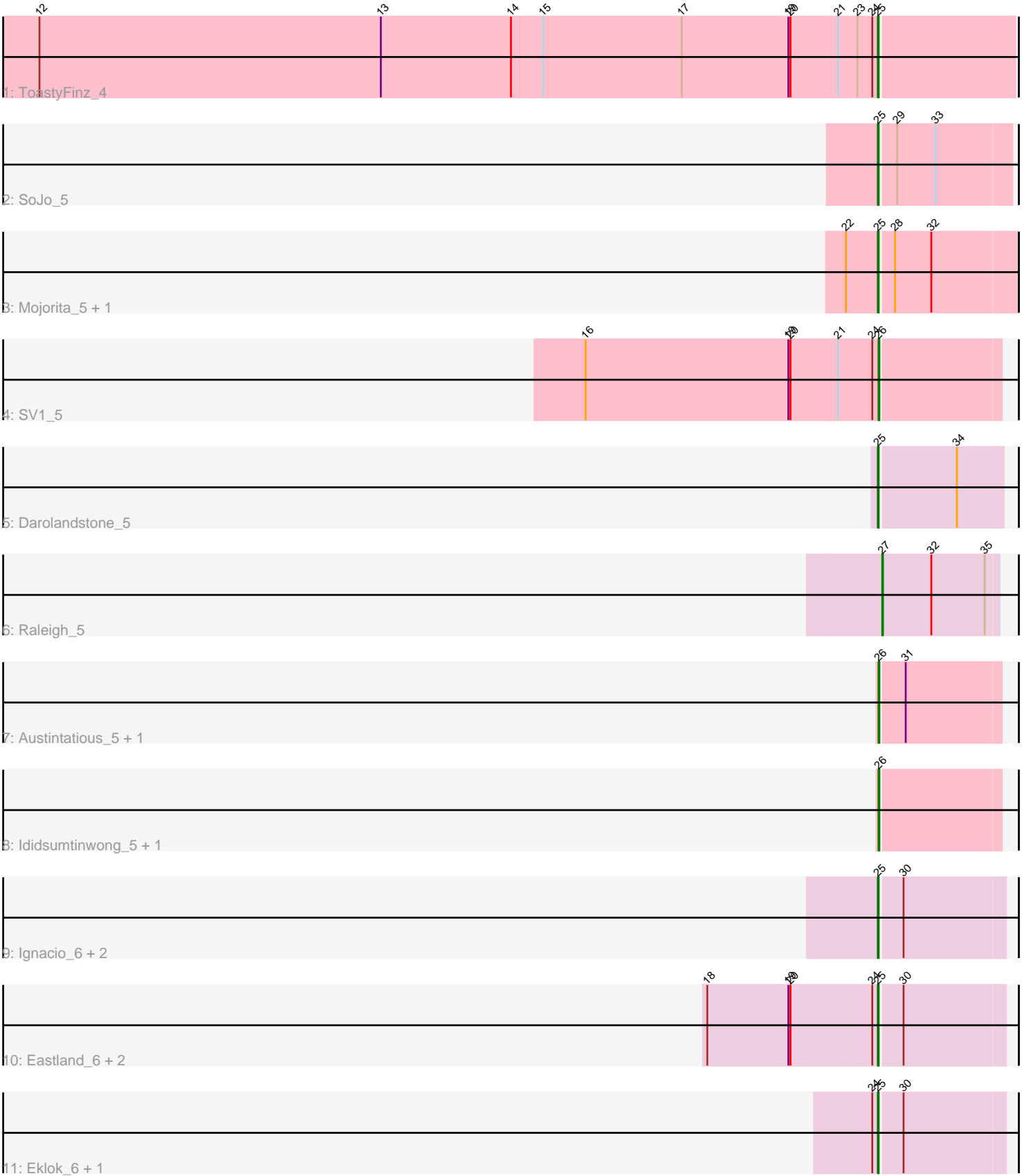# Zoomed Pham 3860

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 3860 Report

This analysis was run 04/05/24 on database version 557.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 3860 has 19 members, 0 are drafts.

Phages represented in each track:
• Track 1 : ToastyFinz_4
• Track 2 : SoJo_5
• Track 3 : Mojorita_5, Picard_5
• Track 4 : SV1_5
• Track 5 : Darolandstone_5
• Track 6 : Raleigh_5
• Track 7 : Austintatious_5, PapayaSalad_5
• Track 8 : Ididsumtinwong_5, Bioscum_5
• Track 9 : Ignacio_6, Vondra_6, HFrancette_6
• Track 10 : Eastland_6, Piccadilly_6, Cumberbatch_6
• Track 11 : Eklok_6, AxeJC_6

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

The start number called the most often in the published annotations is 25, it was called in 13 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AxeJC_6, Cumberbatch_6, Darolandstone_5, Eastland_6, Eklok_6, HFrancette_6, Ignacio_6, Mojorita_5, Picard_5, Piccadilly_6, SoJo_5, ToastyFinz_4, Vondra_6,

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

Genes that do not have the "Most Annotated" start:
• Austintatious_5, Bioscum_5, Ididsumtinwong_5, PapayaSalad_5, Raleigh_5, SV1_5,

Summary by start number:

Start 25:
- Found in 13 of 19 (68.4%) of genes in pham
- Manual Annotations of this start: 13 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AxeJC_6 (BP), Cumberbatch_6 (BP), Darolandstone_5 (BC2), Eastland_6 (BP), Eklok_6 (BP), HFrancette_6 (BP), Ignacio_6 (BP), Mojorita_5 (BC1), Picard_5 (BC1), Piccadilly_6 (BP), SoJo_5 (BC1), ToastyFinz_4 (BC1), Vondra_6 (BP),

Start 26:
- Found in 5 of 19 (26.3%) of genes in pham
- Manual Annotations of this start: 5 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Austintatious_5 (BC3), Bioscum_5 (BC3), Ididsumtinwong_5 (BC3), PapayaSalad_5 (BC3), SV1_5 (BC1),

Start 27:
- Found in 1 of 19 (5.3%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Raleigh_5 (BC2),

Summary by clusters:

There are 4 clusters represented in this pham: BP, BC1, BC2, BC3,

Info for manual annotations of cluster BC1:
- Start number 25 was manually annotated 4 times for cluster BC1.
- Start number 26 was manually annotated 1 time for cluster BC1.

Info for manual annotations of cluster BC2:
- Start number 25 was manually annotated 1 time for cluster BC2.
- Start number 27 was manually annotated 1 time for cluster BC2.

Info for manual annotations of cluster BC3:
- Start number 26 was manually annotated 4 times for cluster BC3.

Info for manual annotations of cluster BP:
- Start number 25 was manually annotated 8 times for cluster BP.

Gene Information:
Gene: Austintatious_5 Start: 4989, Stop: 5153, Start Num: 26
Candidate Starts for Austintatious_5:
(Start: 26 @4989 has 5 MA's), (31, 5022),

Gene: AxeJC_6 Start: 5330, Stop: 5500, Start Num: 25
Candidate Starts for AxeJC_6:
(24, 5324), (Start: 25 @5330 has 13 MA's), (30, 5360),

Gene: Bioscum_5 Start: 4992, Stop: 5156, Start Num: 26

Candidate Starts for Bioscum_5:
(Start: 26 @4992 has 5 MA's),

Gene: Cumberbatch_6 Start: 5317, Stop: 5487, Start Num: 25
Candidate Starts for Cumberbatch_6:
(18, 5080), (19, 5194), (20, 5197), (24, 5311), (Start: 25 @5317 has 13 MA's), (30, 5347),

Gene: Darolandstone_5 Start: 5176, Stop: 5346, Start Num: 25
Candidate Starts for Darolandstone_5:
(Start: 25 @5176 has 13 MA's), (34, 5281),

Gene: Eastland_6 Start: 5318, Stop: 5488, Start Num: 25
Candidate Starts for Eastland_6:
(18, 5081), (19, 5195), (20, 5198), (24, 5312), (Start: 25 @5318 has 13 MA's), (30, 5348),

Gene: Eklok_6 Start: 5330, Stop: 5500, Start Num: 25
Candidate Starts for Eklok_6:
(24, 5324), (Start: 25 @5330 has 13 MA's), (30, 5360),

Gene: HFrancette_6 Start: 5322, Stop: 5492, Start Num: 25
Candidate Starts for HFrancette_6:
(Start: 25 @5322 has 13 MA's), (30, 5352),

Gene: Ididsumtinwong_5 Start: 4992, Stop: 5156, Start Num: 26
Candidate Starts for Ididsumtinwong_5:
(Start: 26 @4992 has 5 MA's),

Gene: Ignacio_6 Start: 5322, Stop: 5492, Start Num: 25
Candidate Starts for Ignacio_6:
(Start: 25 @5322 has 13 MA's), (30, 5352),

Gene: Mojorita_5 Start: 5334, Stop: 5522, Start Num: 25
Candidate Starts for Mojorita_5:
(22, 5289), (Start: 25 @5334 has 13 MA's), (28, 5352), (32, 5403),

Gene: PapayaSalad_5 Start: 4989, Stop: 5153, Start Num: 26
Candidate Starts for PapayaSalad_5:
(Start: 26 @4989 has 5 MA's), (31, 5022),

Gene: Picard_5 Start: 5334, Stop: 5522, Start Num: 25
Candidate Starts for Picard_5:
(22, 5289), (Start: 25 @5334 has 13 MA's), (28, 5352), (32, 5403),

Gene: Piccadilly_6 Start: 5317, Stop: 5487, Start Num: 25
Candidate Starts for Piccadilly_6:
(18, 5080), (19, 5194), (20, 5197), (24, 5311), (Start: 25 @5317 has 13 MA's), (30, 5347),

Gene: Raleigh_5 Start: 5158, Stop: 5319, Start Num: 27
Candidate Starts for Raleigh_5:
(Start: 27 @5158 has 1 MA's), (32, 5227), (35, 5302),

Gene: SV1_5 Start: 4991, Stop: 5155, Start Num: 26
Candidate Starts for SV1_5:

(16, 4580), (19, 4865), (20, 4868), (21, 4934), (24, 4982), (Start: 26 @4991 has 5 MA's),

Gene: SoJo_5 Start: 5239, Stop: 5418, Start Num: 25
Candidate Starts for SoJo_5:
(Start: 25 @5239 has 13 MA's), (29, 5260), (33, 5314),

Gene: ToastyFinz_4 Start: 5107, Stop: 5292, Start Num: 25
Candidate Starts for ToastyFinz_4:
(1, 2080), (2, 2089), (3, 2644), (4, 2755), (5, 2887), (6, 3439), (7, 3448), (8, 3457), (9, 3604), (10, 3724), (11, 3793), (12, 3931), (13, 4411), (14, 4594), (15, 4639), (17, 4834), (19, 4984), (20, 4987), (21, 5053), (23, 5080), (24, 5101), (Start: 25 @5107 has 13 MA's),

Gene: Vondra_6 Start: 5319, Stop: 5489, Start Num: 25
Candidate Starts for Vondra_6:
(Start: 25 @5319 has 13 MA's), (30, 5349),