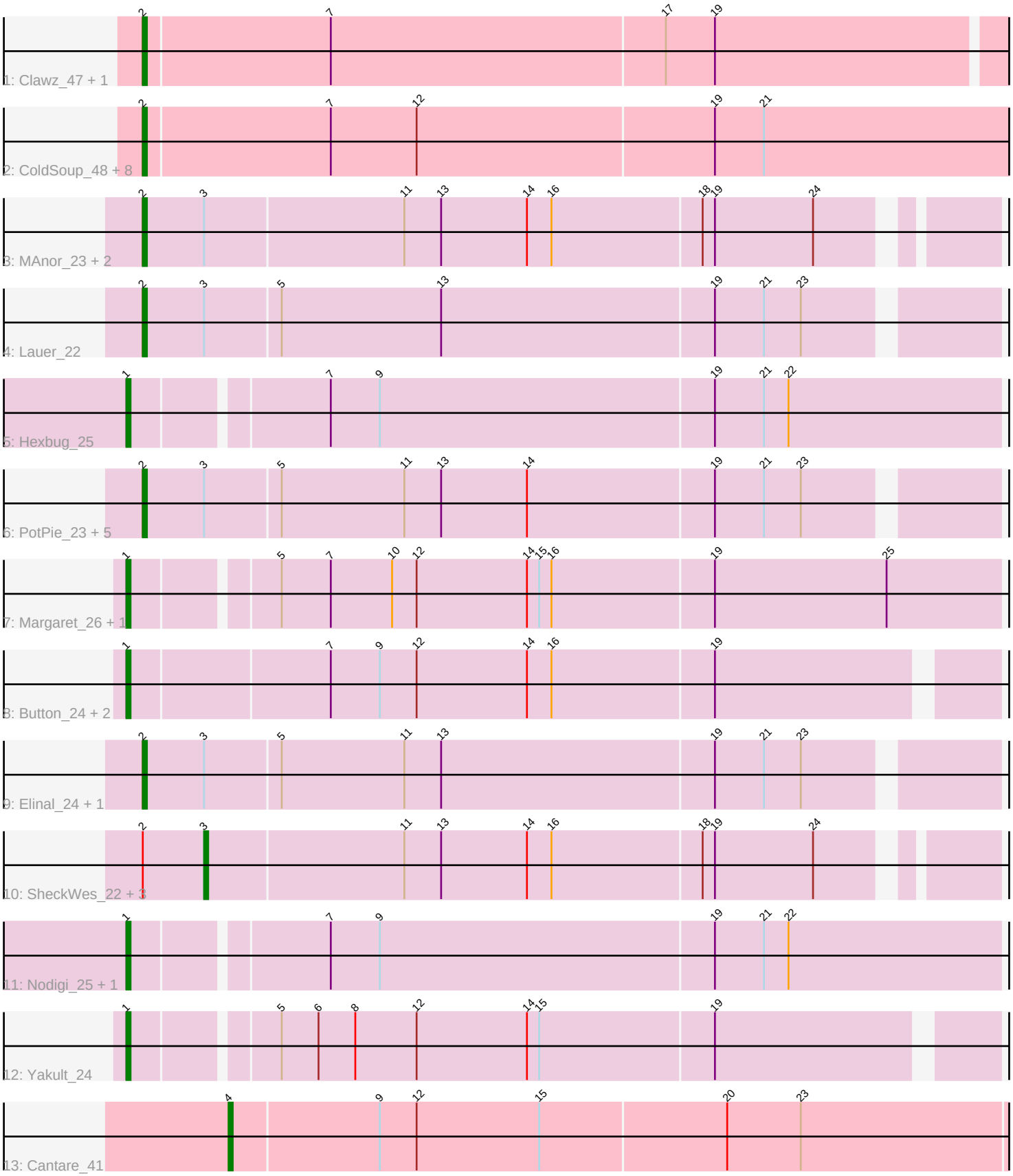
# Pham 284000


2
7
17
19
1: Clawz_47 + 1
2
7
12
19
21
2: ColdSoup_48 + 8
2
3
11
13
14
16
18
19
24
3: MAnor_23 + 2
2
3
5
13
19
21
23
4: Lauer_22
1
7
9
19
21
22
5: Hexbug_25
2
3
5
11
13
14
19
21
23
6: PotPie_23 + 5
1
5
7
10
12
14
15
16
19
25
7: Margaret_26 + 1
1
7
9
12
14
16
19
8: Button_24 + 2
2
3
5
11
13
19
21
23
9: Elinal_24 + 1
2
3
11
13
14
16
18
19
24
10: SheckWes_22 + 3
1
7
9
19
21
22
11: Nodigi_25 + 1
1
5
6
8
12
14
15
19
12: Yakult_24
4
9
12
15
20
23
13: Cantare_41

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 284000 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284000 has 37 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Clawz_47, Makar_48
• Track 2 : ColdSoup_48, Stillion_47, KingstonB_48, Soos_43, Grumio_47, DonTron_47, Jollymon_47, Sting_46, Amo99_48
• Track 3 : MAnor_23, Pons_23, Mayweather_24
• Track 4 : Lauer_22
• Track 5 : Hexbug_25
• Track 6 : PotPie_23, Vine_24, Yucky_23, BigChungus_22, SummitAcademy_22, Feastonyeet_22
• Track 7 : Margaret_26, RanchParmCat_26
• Track 8 : Button_24, Jamzy_26, GiKK_26
• Track 9 : Elinal_24, KayGee_23
• Track 10 : SheckWes_22, ElJefes_22, McDazzle_22, CherryonLim_24
• Track 11 : Nodigi_25, Orla_25
• Track 12 : Yakult_24
• Track 13 : Cantare_41

***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 17 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amo99_48, BigChungus_22, Clawz_47, ColdSoup_48, DonTron_47, Elinal_24, Feastonyeet_22, Grumio_47, Jollymon_47, KayGee_23, KingstonB_48, Lauer_22, MAnor_23, Makar_48, Mayweather_24, Pons_23, PotPie_23, Soos_43, Stillion_47, Sting_46, SummitAcademy_22, Vine_24, Yucky_23,

Genes that have the "Most Annotated" start but do not call it:
• CherryonLim_24, ElJefes_22, McDazzle_22, SheckWes_22,

Genes that do not have the "Most Annotated" start:
• Button_24, Cantare_41, GiKK_26, Hexbug_25, Jamzy_26, Margaret_26, Nodigi_25, Orla_25, RanchParmCat_26, Yakult_24,

**Summary by start number:**

Start 1:
• Found in 9 of 37 ( 24.3% ) of genes in pham
• Manual Annotations of this start: 9 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Button_24 (CT), GiKK_26 (CT), Hexbug_25 (CT), Jamzy_26 (CT), Margaret_26 (CT), Nodigi_25 (CT), Orla_25 (CT), RanchParmCat_26 (CT), Yakult_24 (CT),

Start 2:
• Found in 27 of 37 ( 73.0% ) of genes in pham
• Manual Annotations of this start: 17 of 29
• Called 85.2% of time when present
• Phage (with cluster) where this start called: Amo99_48 (CP), BigChungus_22 (CT), Clawz_47 (CP), ColdSoup_48 (CP), DonTron_47 (CP), Elinal_24 (CT), Feastonyeet_22 (CT), Grumio_47 (CP), Jollymon_47 (CP), KayGee_23 (CT), KingstonB_48 (CP), Lauer_22 (CT), MAnor_23 (CT), Makar_48 (CP), Mayweather_24 (CT), Pons_23 (CT), PotPie_23 (CT), Soos_43 (CP), Stillion_47 (CP), Sting_46 (CP), SummitAcademy_22 (CT), Vine_24 (CT), Yucky_23 (CT),

Start 3:
• Found in 16 of 37 ( 43.2% ) of genes in pham
• Manual Annotations of this start: 2 of 29
• Called 25.0% of time when present
• Phage (with cluster) where this start called: CherryonLim_24 (CT), ElJefes_22 (CT), McDazzle_22 (CT), SheckWes_22 (CT),

Start 4:
• Found in 1 of 37 ( 2.7% ) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cantare_41 (singleton),

**Summary by clusters:**

There are 3 clusters represented in this pham: singleton, CP, CT,

Info for manual annotations of cluster CP:
•Start number 2 was manually annotated 5 times for cluster CP.

Info for manual annotations of cluster CT:
•Start number 1 was manually annotated 9 times for cluster CT.
•Start number 2 was manually annotated 12 times for cluster CT.
•Start number 3 was manually annotated 2 times for cluster CT.

***Gene Information:***

Gene: Amo99_48 Start: 26255, Stop: 26506, Start Num: 2
Candidate Starts for Amo99_48:
(Start: 2 @26255 has 17 MA's), (7, 26300), (12, 26321), (19, 26393), (21, 26405),

Gene: BigChungus_22 Start: 19520, Stop: 19759, Start Num: 2
Candidate Starts for BigChungus_22:
(Start: 2 @19520 has 17 MA's), (Start: 3 @19535 has 2 MA's), (5, 19553), (11, 19583), (13, 19592), (14, 19613), (19, 19658), (21, 19670), (23, 19679),

Gene: Button_24 Start: 18830, Stop: 19045, Start Num: 1
Candidate Starts for Button_24:
(Start: 1 @18830 has 9 MA's), (7, 18878), (9, 18890), (12, 18899), (14, 18926), (16, 18932), (19, 18971),

Gene: Cantare_41 Start: 39115, Stop: 39327, Start Num: 4
Candidate Starts for Cantare_41:
(Start: 4 @39115 has 1 MA's), (9, 39151), (12, 39160), (15, 39190), (20, 39235), (23, 39253),

Gene: CherryonLim_24 Start: 20248, Stop: 20469, Start Num: 3
Candidate Starts for CherryonLim_24:
(Start: 2 @20233 has 17 MA's), (Start: 3 @20248 has 2 MA's), (11, 20296), (13, 20305), (14, 20326), (16, 20332), (18, 20368), (19, 20371), (24, 20395),

Gene: Clawz_47 Start: 26167, Stop: 26412, Start Num: 2
Candidate Starts for Clawz_47:
(Start: 2 @26167 has 17 MA's), (7, 26212), (17, 26293), (19, 26305),

Gene: ColdSoup_48 Start: 26255, Stop: 26506, Start Num: 2
Candidate Starts for ColdSoup_48:
(Start: 2 @26255 has 17 MA's), (7, 26300), (12, 26321), (19, 26393), (21, 26405),

Gene: DonTron_47 Start: 26295, Stop: 26546, Start Num: 2
Candidate Starts for DonTron_47:
(Start: 2 @26295 has 17 MA's), (7, 26340), (12, 26361), (19, 26433), (21, 26445),

Gene: ElJefes_22 Start: 19971, Stop: 20192, Start Num: 3
Candidate Starts for ElJefes_22:
(Start: 2 @19956 has 17 MA's), (Start: 3 @19971 has 2 MA's), (11, 20019), (13, 20028), (14, 20049), (16, 20055), (18, 20091), (19, 20094), (24, 20118),

Gene: Elinal_24 Start: 19473, Stop: 19712, Start Num: 2
Candidate Starts for Elinal_24:
(Start: 2 @19473 has 17 MA's), (Start: 3 @19488 has 2 MA's), (5, 19506), (11, 19536), (13, 19545), (19, 19611), (21, 19623), (23, 19632),

Gene: Feastonyeet_22 Start: 19520, Stop: 19759, Start Num: 2
Candidate Starts for Feastonyeet_22:
(Start: 2 @19520 has 17 MA's), (Start: 3 @19535 has 2 MA's), (5, 19553), (11, 19583), (13, 19592), (14, 19613), (19, 19658), (21, 19670), (23, 19679),

Gene: GiKK_26 Start: 19129, Stop: 19344, Start Num: 1
Candidate Starts for GiKK_26:
(Start: 1 @19129 has 9 MA's), (7, 19177), (9, 19189), (12, 19198), (14, 19225), (16, 19231), (19, 19270),

Gene: Grumio_47 Start: 25733, Stop: 25984, Start Num: 2

Candidate Starts for Grumio_47:
(Start: 2 @25733 has 17 MA's), (7, 25778), (12, 25799), (19, 25871), (21, 25883),

Gene: Hexbug_25 Start: 19814, Stop: 20032, Start Num: 1
Candidate Starts for Hexbug_25:
(Start: 1 @19814 has 9 MA's), (7, 19859), (9, 19871), (19, 19952), (21, 19964), (22, 19970),

Gene: Jamzy_26 Start: 19143, Stop: 19358, Start Num: 1
Candidate Starts for Jamzy_26:
(Start: 1 @19143 has 9 MA's), (7, 19191), (9, 19203), (12, 19212), (14, 19239), (16, 19245), (19, 19284),

Gene: Jollymon_47 Start: 26255, Stop: 26506, Start Num: 2
Candidate Starts for Jollymon_47:
(Start: 2 @26255 has 17 MA's), (7, 26300), (12, 26321), (19, 26393), (21, 26405),

Gene: KayGee_23 Start: 19473, Stop: 19712, Start Num: 2
Candidate Starts for KayGee_23:
(Start: 2 @19473 has 17 MA's), (Start: 3 @19488 has 2 MA's), (5, 19506), (11, 19536), (13, 19545), (19, 19611), (21, 19623), (23, 19632),

Gene: KingstonB_48 Start: 25733, Stop: 25984, Start Num: 2
Candidate Starts for KingstonB_48:
(Start: 2 @25733 has 17 MA's), (7, 25778), (12, 25799), (19, 25871), (21, 25883),

Gene: Lauer_22 Start: 19523, Stop: 19762, Start Num: 2
Candidate Starts for Lauer_22:
(Start: 2 @19523 has 17 MA's), (Start: 3 @19538 has 2 MA's), (5, 19556), (13, 19595), (19, 19661), (21, 19673), (23, 19682),

Gene: MAnor_23 Start: 19493, Stop: 19729, Start Num: 2
Candidate Starts for MAnor_23:
(Start: 2 @19493 has 17 MA's), (Start: 3 @19508 has 2 MA's), (11, 19556), (13, 19565), (14, 19586), (16, 19592), (18, 19628), (19, 19631), (24, 19655),

Gene: Makar_48 Start: 26194, Stop: 26439, Start Num: 2
Candidate Starts for Makar_48:
(Start: 2 @26194 has 17 MA's), (7, 26239), (17, 26320), (19, 26332),

Gene: Margaret_26 Start: 19510, Stop: 19728, Start Num: 1
Candidate Starts for Margaret_26:
(Start: 1 @19510 has 9 MA's), (5, 19543), (7, 19555), (10, 19570), (12, 19576), (14, 19603), (15, 19606), (16, 19609), (19, 19648), (25, 19690),

Gene: Mayweather_24 Start: 20109, Stop: 20345, Start Num: 2
Candidate Starts for Mayweather_24:
(Start: 2 @20109 has 17 MA's), (Start: 3 @20124 has 2 MA's), (11, 20172), (13, 20181), (14, 20202), (16, 20208), (18, 20244), (19, 20247), (24, 20271),

Gene: McDazzle_22 Start: 19965, Stop: 20186, Start Num: 3
Candidate Starts for McDazzle_22:
(Start: 2 @19950 has 17 MA's), (Start: 3 @19965 has 2 MA's), (11, 20013), (13, 20022), (14, 20043), (16, 20049), (18, 20085), (19, 20088), (24, 20112),

Gene: Nodigi_25 Start: 19783, Stop: 20001, Start Num: 1
Candidate Starts for Nodigi_25:
(Start: 1 @19783 has 9 MA's), (7, 19828), (9, 19840), (19, 19921), (21, 19933), (22, 19939),

Gene: Orla_25 Start: 19787, Stop: 20005, Start Num: 1
Candidate Starts for Orla_25:
(Start: 1 @19787 has 9 MA's), (7, 19832), (9, 19844), (19, 19925), (21, 19937), (22, 19943),

Gene: Pons_23 Start: 19481, Stop: 19717, Start Num: 2
Candidate Starts for Pons_23:
(Start: 2 @19481 has 17 MA's), (Start: 3 @19496 has 2 MA's), (11, 19544), (13, 19553), (14, 19574), (16, 19580), (18, 19616), (19, 19619), (24, 19643),

Gene: PotPie_23 Start: 20339, Stop: 20578, Start Num: 2
Candidate Starts for PotPie_23:
(Start: 2 @20339 has 17 MA's), (Start: 3 @20354 has 2 MA's), (5, 20372), (11, 20402), (13, 20411), (14, 20432), (19, 20477), (21, 20489), (23, 20498),

Gene: RanchParmCat_26 Start: 19510, Stop: 19728, Start Num: 1
Candidate Starts for RanchParmCat_26:
(Start: 1 @19510 has 9 MA's), (5, 19543), (7, 19555), (10, 19570), (12, 19576), (14, 19603), (15, 19606), (16, 19609), (19, 19648), (25, 19690),

Gene: SheckWes_22 Start: 19493, Stop: 19714, Start Num: 3
Candidate Starts for SheckWes_22:
(Start: 2 @19478 has 17 MA's), (Start: 3 @19493 has 2 MA's), (11, 19541), (13, 19550), (14, 19571), (16, 19577), (18, 19613), (19, 19616), (24, 19640),

Gene: Soos_43 Start: 25462, Stop: 25713, Start Num: 2
Candidate Starts for Soos_43:
(Start: 2 @25462 has 17 MA's), (7, 25507), (12, 25528), (19, 25600), (21, 25612),

Gene: Stillion_47 Start: 26047, Stop: 26298, Start Num: 2
Candidate Starts for Stillion_47:
(Start: 2 @26047 has 17 MA's), (7, 26092), (12, 26113), (19, 26185), (21, 26197),

Gene: Sting_46 Start: 25901, Stop: 26152, Start Num: 2
Candidate Starts for Sting_46:
(Start: 2 @25901 has 17 MA's), (7, 25946), (12, 25967), (19, 26039), (21, 26051),

Gene: SummitAcademy_22 Start: 19551, Stop: 19790, Start Num: 2
Candidate Starts for SummitAcademy_22:
(Start: 2 @19551 has 17 MA's), (Start: 3 @19566 has 2 MA's), (5, 19584), (11, 19614), (13, 19623), (14, 19644), (19, 19689), (21, 19701), (23, 19710),

Gene: Vine_24 Start: 20486, Stop: 20725, Start Num: 2
Candidate Starts for Vine_24:
(Start: 2 @20486 has 17 MA's), (Start: 3 @20501 has 2 MA's), (5, 20519), (11, 20549), (13, 20558), (14, 20579), (19, 20624), (21, 20636), (23, 20645),

Gene: Yakult_24 Start: 19364, Stop: 19576, Start Num: 1
Candidate Starts for Yakult_24:

(Start: 1 @19364 has 9 MA's), (5, 19397), (6, 19406), (8, 19415), (12, 19430), (14, 19457), (15, 19460), (19, 19502),

Gene: Yucky_23 Start: 20345, Stop: 20584, Start Num: 2
Candidate Starts for Yucky_23:
(Start: 2 @20345 has 17 MA's), (Start: 3 @20360 has 2 MA's), (5, 20378), (11, 20408), (13, 20417), (14, 20438), (19, 20483), (21, 20495), (23, 20504),